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Types in the fish collection of the Staatliches Museum für Naturkunde in Stuttgart, described in 1845–2004

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Abstract

The fish collection of the Staatliches Museum für Naturkunde in Stuttgart contains type specimens of nominal species described by A. Agassiz, L. Agassiz, L. A. J. Al-Hassan, J. P. Arnold, P. Banarescu, A. Baranes, H. Bath, P. Bleeker, M. E. Bloch, A. Brauer, A. Brito, P. Chabanaud, E. H. Chave, R. Fricke, S. Garman, J. Gaye-Siessegger, A. C. Gill, D. Golani, A. C. L. G. Günther, J. J. Heckel, C. Hernández, D. S. Jordan, R. N. Jubb, K. Kessler, C. B. Klunzinger, I. Koch, F. Krauss, H. Krøyer, C.-L. Lee, L. Lortet, C. F. Lütken, A. R. McCulloch, R. D. Mooi, T. A. Munroe, O. Nüsslin, J. D. Ogilby, P. S. Pallas, P. Pappenheim, C. M. L. Popta, F. W. Putnam, J. E. Randall, J. Reinhardt, C. R. Roberts, V. G. Springer, F. Steindachner, A. Suzumoto, G. Veesenmayer, R. E. Watson, M. Weber, G. P. Whitley, J. T. Williams, P. Wirtz, M. Zaiser Brownell. The fish type collection contains a total of 869 specimens, i. e. 68 holotypes, 303 syntypes, 4 lectotypes, 2 neotypes, 59 paralectotypes and 433 paratypes, out of 105 families and 288 species of fishes. 69 additional types out of 37 species have apparently been lost in the past. Information on the original descriptions, type status, actual classification, and additional type specimens in other collections are presented in the present paper.
Keywords: Fish collection, Staatliches Museum für Naturkunde Stuttgart, type catalogue.

Zusammenfassung

Die Fischsammlung des Staatlichen Museums für Naturkunde in Stuttgart enthält Typusexemplare, die von den folgenden Autoren beschrieben wurden: A. Agassiz, L. Agassiz, L. A. J. Al-Hassan, J. P. Arnold, P. Banarescu, A. Baranes, H. Bath, P. Bleeker, M. E. Bloch, A. Brauer, A. Brito, P. Chabanaud, E. H. Chave, R. Fricke, S. Garman, J. Gaye-Siessegger, A. C. Gill, D. Golani, A. C. L. G. Günther, J. J. Heckel, C. Hernández, D. S. Jordan, R. N. Jubb, K. Kessler, C. B. Klunzinger, I. Koch, F. Krauss, H. Krøyer, C.-L. Lee, L. Lortet, C. F. Lütken, A. R. McCulloch, R. D. Mooi, T. A. Munroe, O. Nüsslin, J. D. Ogilby, P. S. Pallas, P. Pappenheim, C. M. L. Popta, F. W. Putnam, J. E. Randall, J. Reinhardt, C. R. Roberts, V. G. Springer, F. Steindachner, A. Suzumoto, G. Veesenmayer, R. E. Watson, M. Weber, G. P. Whitley, J. T. Williams, P. Wirtz, M. Zaiser Brownell. Die Sammlung enthält insgesamt 869 Exemplare, darunter 68 Holotypen, 303 Syntypen, 4 Lektotypen, 2 Neotypen, 59 Paralektotypen und 433 Paratypen von 288 Arten aus insgesamt 105 Familien. 69 weitere Typusexemplare von 37 Arten sind anscheinend in der Vergangenheit verloren gegangen. Die vorliegende Arbeit gibt Informationen über Ori-

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ginalbeschreibungen, Typenstatus, aktuelle Namen sowie weitere Typusexemplare in anderen Sammlungen.

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1 Introduction

1.1 Historical review

The 200 year old Staatliches Museum für Naturkunde in Stuttgart is one of the largest natural history museums in Central Europe. It is a state museum (State of Baden-Württemberg, Federal Republic of Germany), and employs today 27 scientists, with a total of about 120 employees.

The natural history collection was founded in the 17th century, when natural curiosities were collected in the "Herzoglich Württembergische Kunstkammer". Since about 1690, unpaid keepers were in charge of the collection. By decree of Duke Karl Eugen von Württemberg, it became independent from the art collection in 1791. In 1826, the collections moved to a new building in Stuttgart (Neckarstraße 4–6, at Archivstraße); in that year, the public natural history museum was founded ("Naturhistorische Staatssammlung Württembergs"). After 1826, the collections were reorganized and increased. Annex buildings were added providing more space in 1837 and 1864 (Lampert 1896). The collections remained in the Neckarstraße/Archivstraße buildings until World War II, when they were moved to over 30 different localities all over southwestern Germany in order to protect them from bombardments. Before the evacuation was completed, the museum building was hit by bombs in September 1944 and burnt out completely, destroying natural history materials. After the war, the museum housed temporarily in ruins, then in old barracks in Ludwigsburg. In 1950, the museum's name was changed to "Staatliches Museum für Naturkunde in Stuttgart". Parts of the exhibition moved into Schloss Rosenstein in Stuttgart in 1954. Additional scientific staff was employed since the beginning of the 1960s (Schüz 1966). A new building near the Löwentor in Stuttgart was opened on 4 December 1985. Schloss Rosenstein was reconstructed and reopened with new exhibitions in 1993.

The collection of recent fishes was founded around 1800. Nearly no dry materials older than 1800 survived. The first alcohol specimens are from 1818, when the museum received fishes from Venice collected by von Martens. The fish collection slowly increased with materials from South Africa collected by Ludwig and Krauss (collected in 1837, 1840), from Surinam collected by Kappler (between 1845 and 1880), from Egypt by Griesinger (collected in 1852), and from Brazil by Glocker

(received in 1853 and 1854). Materials were exchanged with the Museums in Milano (in 1853, 1857), Hamburg (in 1859) and Cambridge, Massachusetts (in 1859, 1864, 1876). In 1860 and 1861, collections from Indonesia were received from P. BLEEKER. After 1860, the fish collection increased faster, with materials from Brazil (MONIZ D'ARAGAR, received in 1861), the Ethiopian Red Sea (HEUGLIN, in 1861 and 1865), Mediterranean (KLUNZINGER, VON ELSAESSER and GEGENBAUR, in 1862–1863), Indonesia (VON ROSENBERG and LUDEKING, in 1867), and Nigeria (MANN, between 1868 and 1877). Large collections from Australia were presented by VON MÜLLER (from 1868 to 1891). Additional important materials from the northern Red Sea were presented by KLUNZINGER (from 1869 to 1894). Later, fishes from New Zealand (VON HAAST, in 1876), India (DOBSON, in 1877; WARTH, in 1877), Guatemala (SARG, from 1879 to 1885), Tokyo (BAIR, in 1882; SCHNEIDER, in 1883; SCHMIDT-SCHARF, in 1906), and the Near East (LORTET, in 1884) were added. The museum exchanged materials with the museums in Copenhagen, Vienna, Cambridge (Massachusetts), Petersburg, Hamburg and Berlin. In the end of the 19th century, large collections were received from Singapore (MAYER, in 1897 and 1902), from several Pacific islands (KRÄMER, from 1898 to 1900), Indonesia (POPLOT, in 1904), from the German colonies including West and East Africa, China, New Guinea (several collectors), Taiwan (SAUTER, in 1908), Wladiwostok (WITTENBURG, in 1908) and other areas. In 1910, fishes of the Deutsche Tiefsee-Expedition 1898/1899 were received. In the 1920s, materials from Argentina collected by the Deutsche Chaco-Expedition 1925/26, and from Brazil (EHRHARDT, in 1923 and 1928) were added. A collection from South Africa was purchased in 1965, a *Latimeria chalumnae* from the Comoro Islands in 1966. In 1974, the museum exchanged fishes with the Australian Museum in Sydney. A collection of freshwater fishes from Chile was received (WETZLAR, in 1975–1976).

Since 1989, the fish collection increased rapidly; a worldwide collection (FRICKE) was purchased, and additional materials were added, mainly from European freshwater, European seas, Indo-Pacific, South American and Southeast Asian freshwater. Important collections added materials from the Mascarene Islands, Australia, New Zealand, and New Caledonia.

Curators in charge of the zoology collection were C. F. KIELMEYER (1790–1796), J. AUTENRIETH (1796–1797), C. F. JÄGER (1797–1817), and G. F. JÄGER (1817–1856). F. VON KRAUSS (1812–1890, at the museum 1840–1890) reorganized and catalogued the zoology collections since 1840, and increased the collections by contacts to collectors from all over the world (LAMPERT & SCHÜZ 1962). C. B. KLUNZINGER catalogued and identified the fish collection between 1879 and 1884 and was the first fish taxonomist at the museum. K. LAMPERT (1859–1918, at the museum 1884–1918) mostly worked on the freshwater fauna of southwestern Germany, but also arranged new exhibitions and added to the fish collection (LAMPERT 1959). M. RAUTHER (1879–1951) protected the collections by organizing their evacuation during World War II. In 1963, the first curator of fishes was employed: G. VON WAHLERT (at the museum 1963–1988), who was working on evolutionary biology, functional morphology and tropical aquaculture. The present curator is R. FRICKE (since December 1988), who is working on taxonomy, zoogeography and evolution of several fish groups; he is also engaged in European nature conservation projects.

After World War II, the collection was housed provisionally in old barracks in Ludwigsburg, then in the Schloss Rosenstein in Stuttgart. In 1990, the fish collection

moved to a new spirit building (Pragstraße, Stuttgart), which provided more space and permitted the reorganization of the collection according to modern systematics. Though there is still shortage of collection space, it is now possible to work with the collection after a period of more than 50 years of stagnation.

The collection of recent fishes in Stuttgart houses numerous types of fish species. Three previous type catalogues have been published, which are included in the present paper (FRICKE 1991b, 1992b, 1995). The present paper is an update on the previous type catalogues, but also includes recently discovered older types, and types acquired between 1995 and 2004.

Concerning the historical types, the most important collections were received by BLEEKER and KLUNZINGER.

1.2 The BLEEKER collection

The BLEEKER collection was received in January 1860 and January 1861. PIETER BLEEKER (1819–1878) studied medicine in Haarlem and was qualified as surgeon in 1840. As he was more interested in zoology than in medics, he applied for a post at the Museum in Leiden but was twice unsuccessful. Therefore, he passed the examination for an army surgeon and was posted at Batavia, Dutch East Indies (Jakarta, Indonesia) from 10 March 1842 till 10 September 1860, when he returned to the Netherlands. BLEEKER spent 18 years of his life exclusively at Batavia, with two exceptions: he practiced two years as a physician at Samarang, Java, and made a journey to Celebes/Sulawesi and the Moluccas/Maluku in 1856. Soon after his arrival in Java, BLEEKER began to investigate the fauna of his surroundings and found several unknown species of fishes; so he specialized in this group of animals. BLEEKER started to publish on Indonesian fishes in 1844, and wrote a total of 432 papers on this subject, describing large numbers of new species (WEBER & BEAUFORT 1911).

When BLEEKER left the Dutch East Indies in 1860, he tried unsuccessfully to get support from the Leiden Museum, as he planned to publish an atlas of the fishes of the Indo-Australian Archipelago. BLEEKER therefore sold parts of his collection to several museums. The Leiden museum received 12 shipments (over 11,000 specimens) between 1852 and 1860, mostly containing duplicates, while BLEEKER kept typical series in his own collection (WHITEHEAD et al. 1966). However, BLEEKER apparently also rejected type materials when he had acquired better preserved specimens (WHITEHEAD et al. 1966).

Another museum to receive BLEEKER materials as a gift was the museum in Stuttgart; it received the first shipment when BLEEKER was still in Batavia. BLEEKER sent the shipment to Stuttgart in June 1859; it was received in January 1860 (KRAUSS 1860). This first shipment, registered under the inventory number SMNS 760, contained many fishes with locality data like "Amboina" or "Java". A second shipment was received in January 1861, after BLEEKER's return to the Netherlands; it was registered under the inventory number SMNS 817, but the fishes did not bear labels with exact locality data. The old museum catalogue which is still available just states "Indischer Archipel" ["Indian Archipelago", which means Indonesia]. The reason is that BLEEKER was short of money and space after his return to the Netherlands, and had to put all specimens of a species into a single jar, no longer separating the collecting localities.

BOESEMAN (1983: 3) stated that BLEEKER freely disposed his duplicates to other museums, but retained the types till the final revision of the pertinent group and de-

posited them subsequently in London or Leiden. WHITEHEAD et al. (1966: 13) pointed out that it is "most unlikely that BLEEKER specimens in other museums (apart from Leiden and London) are from the type series". This appears to be true for most species and museums, but in some cases he apparently sent type specimens away. The first such case that came to the author's mind was *Callionymus melanotopterus*, the two syntypes of which could neither be found in London nor in Leiden, but in Stuttgart; the specimens were measured and perfectly agreed with BLEEKER's description. Soon, I found similar cases in several specimens at the Stuttgart Museum, which are evidently types of nominal species described by BLEEKER. The reason for this exception from BOESEMAN's rule may be that Stuttgart received fishes when BLEEKER was still in Batavia and did not yet have firm plans to publish the atlas of fishes of Netherlands India/Indonesia. BLEEKER started to work on the atlas after his return to the Netherlands and published the first volume in 1862 (BLEEKER 1862). An other explanation might be that BLEEKER was not aware that these specimens were types, as he did not apply a modern type concept.

Other museums received BLEEKER materials either in the later 1860s or 1870s, when BLEEKER travelled around and disposed duplicate materials there (Paris, Bonn, Heidelberg, Darmstadt, Munich, Würzburg, Vienna, Göttingen, Copenhagen; see WHITEHEAD et al. 1966). Also, BLEEKER sold nine lots of fishes to London museum between 1858 and 1878, comprising 1,786 specimens, including types (WHITEHEAD et al. 1966).

PIETER BLEEKER died in 1878. On 1 December 1879, the remaining BLEEKER materials (totally 26,500 specimens in 2,287 species) were sold in a public auction at the Café Zomerzorg in Leiden. The fishes were then divided by the curator of the Leiden Museum, HUBRECHT. All groups that were believed to contain types were sold to the Leiden Museum. Others were bought by the Museum of the University of Amsterdam, the British Museum (Natural History) in London, and the National Museum of Victoria in Melbourne (DIXON & HUXLEY 1982). All these specimens do not bear exact locality data, but the London and Leiden collections may contain types.

The fish collection of the Staatliches Museum für Naturkunde in Stuttgart (SMNS) originally contained a total of 945 BLEEKER specimens (according to the museum catalogue; however, KRAUSS (1860) stated a total of 662 fishes received in January 1860, and a total of 438 received in January 1861, resulting in a total of 1,100 BLEEKER specimens), 113 of which have apparently been lost. The remaining collection of 832 specimens contains a total of 127 type specimens, including 6 holotypes, 117 syntypes, and 4 paralectotypes. A total of 8 type specimens belonging to 7 species have apparently been lost in the past. In addition, BLEEKER materials were received from the Zoologisches Institut, University of Heidelberg (ZIH), which was given in part to the Forschungsinstitut Senckenberg, Frankfurt/Main (SMF), and in part to the Staatliches Museum für Naturkunde in Stuttgart (SMNS). The ZIH had received the fishes as a gift from P. BLEEKER in 1865. While the majority of Heidelberg BLEEKER specimens was given to SMF, a few are now in the SMNS collection, including additional type specimens. At present, the SMNS collection houses types of 67 nominal species originally described by P. BLEEKER.

1.3 The KLUNZINGER and MÜLLER collections

CARL BENJAMIN KLUNZINGER was born on 18 November 1834 as the son of a Swabian priest in Güglingen, former Kingdom of Württemberg, now state of Baden-Württemberg, southwestern Germany. He received the first education at a rural Latin school, then at a high school in Stuttgart. KLUNZINGER expressed an early interest in geology, botany and zoology, but, after finishing school, started to study medicine at the universities in Tübingen and Würzburg, because a career as a pure natural history scientist or teacher was nearly impossible in those days (KLUNZINGER 1915).

After his first medicine exam in 1857, KLUNZINGER spent a practical year in Vienna and Prague, also attending geological and zoological lectures. He had his second exam in 1859, when Germany was at war, and therefore had to join the army as a chief physician afterwards, expecting a soon departure to France. After a few months, the war was over without active combat, and KLUNZINGER retired with half of his wages. He took a position as physician in the Black Forest mountain resort Liebenzell. After a year, he was dissatisfied with theory and practice of medicine, quit his job, and planned to travel around the world with the eyes of a natural historian. He returned to his parents' home at Stuttgart and started to prepare his journey.

In Stuttgart, he met Prof. KRAUSS, then curator of the Natural History Museum, who suggested that KLUNZINGER should travel to Kosseir (Al-Qusayr) at the Egyptian Red Sea shore where he should examine the objects of natural history in detail. Former expeditions by German researchers had lead to this area. A problem was money; KRAUSS suggested that KLUNZINGER should sell the specimens he would collect to the Stuttgart Museum.

KLUNZINGER first travelled to Trieste/Italy to get used to collecting, conservation and preparation of animals. In November 1862, he continued his journey to Cairo in Egypt, where he spent 18 months to learn the Arabian language. He tried to get a position as a physician in Kosseir, and finally succeeded. KLUNZINGER moved to Kosseir in February 1864, where he spent five years and collected large quantities of fish and other marine animals (KLUNZINGER 1877).

In 1869, KLUNZINGER returned to Stuttgart to examine his Red Sea fishes in the Natural History Museum; he also travelled to Frankfurt and Berlin to compare his materials with the collections there, and gave specimens to those museums. KLUNZINGER soon published two papers on Red Sea fishes (KLUNZINGER 1870, 1871). He also worked at Stuttgart museum on a collection of Australian fishes procured by F. VON MÜLLER, and was paid as a technician.

FERDINAND VON MÜLLER (1825–1896), born in Rostock in 1825, studied in Kiel medicine and natural history, and received a doctoral degree. He emigrated with his two sisters to Australia, and got a position as government botanist in Melbourne. His interest in animals and plants led to the foundation of the Zoological-Botanical Garden in Melbourne; MÜLLER was the first director of this zoo. Here he was free to collect numerous animals and plants. He published the descriptions of about 2,000 Australian plant species, including a monograph on *Eucalyptus*. MÜLLER sent animals to several German museums. After 1865, he wanted to concentrate his materials at a single museum. He decided to send all of his animals to Stuttgart. Several journeys led him to Queensland, Darwin, Western Australia, and New Zealand. MÜLLER died in 1896 in Melbourne (KÖNIG 1991).

KLUNZINGER, who worked on the MÜLLER collection, described about 50 new species of fishes from Australia and New Zealand (KLUNZINGER 1872, 1880). In 1872, he returned to Kosseir, again as physician, and tried to collect wanting species of Red Sea fishes. In 1875, KLUNZINGER arrived in Stuttgart with plenty of fish and marine animals (KLUNZINGER 1877). He was again employed as a technician at the Stuttgart Museum in 1879–1884, relabelled and reidentified the whole fish collection in these years, and published his monograph on Red Sea fishes (KLUNZINGER 1884). Later, KLUNZINGER had a conflict with Prof. KRAUSS, who had become director of the museum and argued that technicians were not allowed to do scientific research. KLUNZINGER wrote a letter to the Ministry of Churches and Schools, which was responsible for the museums; as a result of this letter, he was appointed as professor of zoology at the University of Stuttgart in 1884, and spent there the rest of his life. Unfortunately, teaching took all of his time after that date, so that he still could not do much more research. KLUNZINGER died on 21 June 1914 in Stuttgart (FRICKE 1991c).

KLUNZINGER's collection of Red Sea fishes in the Staatliches Museum für Naturkunde in Stuttgart comprises about 1,500 specimens; the MÜLLER collection of Australian fishes is even larger, with about 2,500 specimens. Some materials were destroyed during World War II (see FRICKE 1991b). Additional historical details are given by FRICKE (1991c). At present, the SMNS collection contains a total of 175 KLUNZINGER types out of 48 families and 71 species of fishes, including 27 holotypes, 131 syntypes, 2 lectotypes, and 15 paralectotypes. A total of 35 types in 17 species has apparently been lost in the past.

1.4 Additional type collections

KLUNZINGER donated some of his Red Sea materials to foreign museums. In exchange, he received types from MCZ (AGASSIZ 1850; AGASSIZ in PUTNAM 1863; GARMAN 1881), from MGHN (LORTET 1878), from NMW (STEINDACHNER 1870, 1879a, 1879c, 1880, 1910), from ZISP (KESSLER 1870, 1872, 1874), and from ZMUC (KRØYER in LÜTKEN 1874; REINHARDT in LÜTKEN 1874, 1875; LÜTKEN 1875). Researchers visiting the museum [SMNS] described new species based on material in the collections (CHABANAUD 1931; POPTA 1908, 1911; STEINDACHNER 1879b). Several new species were subsequently based on KLUNZINGER's illustrations and descriptions (MCCULLOCH 1911; OGILBY 1898; WEBER 1907; WHITLEY 1929, 1931).

The Staatliches Museum für Naturkunde in Stuttgart also received type materials from A. GÜNTHER (BMNH) (species described by GÜNTHER 1859, 1860b), in exchange for specimens of German freshwater fishes taken by GÜNTHER to London. Additional material was distributed by ZMB to various German museums, including SMNS (species described by BRAUER 1902, 1905, 1906; PAPPENHEIM 1911, 1913).

The private collection of R. FRICKE was received in 1988; it contained types of callionymid fishes. In 1991 and 1992, the private collection of P. WIRTZ (Funchal, Madeira) was acquired, including types of species described by BATH (1990a, 1990b) and WIRTZ & BATH (1982, 1989). Additional type specimens were donated by H. BATH, Pirmasens (species described by BATH 1992, 2004).

Several new species were described by scientific personnel of the museum and affiliated institutions, additional to KLUNZINGER's descriptions (see FRICKE 1992b). The respective publications include KRAUSS (1882), VEESENMAYER (1884), FRICKE (1990, 1992a, 1992c, 1993a, 1993b, 1994a, 1994b, 1997, 1998a, 1998b, 1999a, 2000a, 2001, 2002b, 2004), FRICKE & ZAISER BROWNELL (1993), FRICKE & KOCH (1990),

FRICKE & LEE (1993), FRICKE & RANDALL (1992), FRICKE & ROBERTS (1993), SPRINGER & FRICKE (2000), and GILL & FRICKE (2001). Additional specimens out of the collection were described by foreign researchers (e. g. GOLANI & BARANES 1997, MOOI & JUBB 1996, RANDALL 1999, MUNROE et al. 2000, WATSON 2000, SAKAI & NAKABO 2004). The largest collection of recent types was described by R. FRICKE; the SMNS collection includes a total of 334 FRICKE types, including 13 holotypes, 320 paratypes and 1 neotype in 57 species.

Together with the type catalogues of FRICKE (1991b, 1992b, 1995), the fish type collection of the Staatliches Museum für Naturkunde in Stuttgart at present contains a total of 869 specimens, i. e. 68 holotypes, 303 syntypes, 4 lectotypes, 2 neotypes, 59 paralectotypes and 433 paratypes, out of 105 families and 288 species of fishes. 69 additional types out of 37 species have apparently been lost in the past.

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2 Methods and materials

2.1 Methods

The catalogue includes all type specimens ever deposited at the SMNS collection, and indicates if they were lost in the past. The following information is given for each nominal species with type material in the SMNS collection:

Family (families are arranged in alphabetic order; classification follows ESCHMEYER 1998 and ESCHMEYER in FROESE & PAULY 2004).

Genus and species group names for each nominal taxon in alphabetical order; author and year of original description, including reference(s); type locality and/or further important information of the original description (in parentheses).

Synonyms, homonyms and/or aberrant spellings of importance.

Actual classification (including reference, if not decision of the present paper).

Type status; SMNS catalogue number (**bold** means material deposited in SMNS, normal font indicates material which is definitly or probably lost); number of type specimens; locality; collector; date of collection or catalogue entry date.

Remarks on additional type specimens of the nominal taxon in other collections and/or further necessary remarks.

In the case of the BLEEKER, KLUNZINGER and MÜLLER collections, only the type specimens are listed in the present paper. For judging if a specimen could be considered as a type specimen, it was measured and compared with BLEEKER's original description, and with BLEEKER

materials in other collections, including AMS, BMNH, NMV and RMNH. The names on the historical SMNS specimen labels were written by C. B. KLUNZINGER in 1879–1884, who re-identified the BLEEKER collection, mostly using the systematics of A. GÜNTHER's catalogues of the fishes in the British Museum (GÜNTHER 1860a to 1870). The labels usually still contained the old BLEEKER names as synonyms, so giving access to the original name. For the BLEEKER materials purchased in 1860, locality data were available which could be compared with the original description. In the type catalogue, all type specimens are measured. For BLEEKER specimens, the tip of the upper jaw is used as the starting point for standard and total length rather than the mid of the upper lip as suggested by FRICKE (1983), because BLEEKER measured from that point. For other type collections, specimens are measured following FRICKE (1983), with measurements of the total and standard lengths starting at the mid of the upper lip.

FRICKE (1999a, b) found that many historical fish descriptions are of composite nature, based on more than one species, while no type specimens are available. For several such cases he proposed neotypes in order to fix the present usage of the names. After discussion with B. B. COLLETTE (Washington D.C., personal communication, 2000), they decided that under strict interpretation the neotypes were not part of a revision, and should therefore not be used (FRICKE 2000b: 639–640). These neotypes are not included in the present paper, but treated as manuscript types pending formal designation. The nomenclatural problems discussed are still unsolved.

Abbreviations

The following abbreviations are used in the type catalogue:

'''	(in papers by BLEEKER): means millimeter (according to W. D. ANDERSON, Charleston, S.C., U.S.A., personal communication; the former P. J. P. WHITEHEAD, La Paz, Mexico, personal communication).
+	(after total length, e. g. "345+ mm TL"): in cases when the caudal fin of the specimen is broken, the total length given is smaller than the original total length; the plus sign indicates the wanting part.
?	(in synonymies): status in question.
cat. entry date	Catalogue entry date; date of entry into historical museum catalogue, which was arranged in systematic order (if no date of collection is available).
coll. date	Date of collection.
inv. date	Inventory date: date of entry into historical museum inventory, which was arranged in numerical order (if no date of collection is available).
SL	Standard length; measured from the tip of the upper jaw (for the BLEEKER, KLUNZINGER and MÜLLER collections) or from the mid of the upper lip (for other collections) to the mid of caudal fin base.
TL	Total length; measured from the tip of the upper jaw/mid of the upper lip to the end of the caudal fin.

2.2 Materials

Specimens cited in the present paper are deposited in the following collections (in general, acronyms follow LEVITON et al. 1985 and LEVITON & GIBBS 1988, but with additions and amendments):

AMNH	American Museum of Natural History, New York, U.S.A.
AMS	The Australian Museum, Sydney, Australia
ANSP	The Academy of Natural Sciences of Philadelphia, U.S.A.
BKNU	Kunsan National University, Department of Biology, Kunsan, Korea
BMN	Bergen Museum, Bergen, Norway
BMNH	The Natural History Museum, London, U.K. (formerly British Museum [Natural History])
BPBM	Bernice P. Bishop Museum, Honolulu, U.S.A.
CAS	California Academy of Sciences, San Francisco, U.S.A.
CSIRO	Commonwealth Scientific and Industrial Research Organisation, Fisheries, Hobart, Australia

FMNH	Field Museum of Natural History, Chicago, U.S.A.
HUJF	Hebrew University of Jerusalem, Israel
IFAN	Institut Fondamental d'Afrique Noire, Dakar, Senegal (formerly Institut Français d'Afrique Noire)
IRDNC	Institut de Recherche pour le Développement, Nouméa, New Caledonia (formerly Office de la Récherche Scientifique et Technique Outre-Mer, O.R.S.T.O.M.)
KFRS	Kanudi Fisheries Research Station, Port Moresby, Papua New Guinea
MCM	Museu Carlos Machado, São Miguel, Azores, Portugal
MCP	Pontifica Universidade Católica do Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brasil
MCZ	Museum of Comparative Zoology, Harvard College, Cambridge, Massachusetts, U.S.A.
MGAB	Muzeul de Istorie Naturala 'Grigore Antipa', Bucharest, Romania
MGHN	Musée Guimet d'Histoire Naturelle, Lyon, France
MHNG	Muséum d'Histoire Naturelle, Genève, Switzerland
MMF	Museu Municipal do Funchal, Madeira, Portugal
MNHN	Muséum National d'Histoire Naturelle, Paris, France
MPM	Milwaukee Public Museum, Milwaukee, Wisconsin, U.S.A.
MSNG	Museo Civico di Storia Naturale, Genova, Italy
MZUT	Università di Torino, Museo Zoologico, Torino, Italy
NMNZ	Museum of New Zealand Te Papa Tongarewa, Wellington, New Zealand (formerly Dominion Museum, DM; National Museum of New Zealand)
NMV	National Museum of Victoria, Melbourne, Australia
NMW	Naturhistorisches Museum Wien, Austria
NSMT-P	National Science Museum, Tokyo, Japan
NTM	Northern Territory Museum of Arts and Sciences, Darwin, Australia
RMNH	Nationaal Natuurhistorisch Museum, Leiden, the Netherlands (formerly Rijksmuseum van Natuurlijke Historie)
ROM	Royal Ontario Museum, Toronto, Canada
SAIAB	South African Institute of Aquatic Biodiversity, Grahamstown, South Africa (formerly Rhodes University, J. L. B. Smith Institute of Ichthyology, RUSI)
SB	Sammlung Hans Bath, Pirmasens, Germany
SMF	Forschungsinstitut Senckenberg, Frankfurt/Main, Germany
SMNS	Staatliches Museum für Naturkunde in Stuttgart, Germany
SNHMB	Staatliches Naturhistorisches Museum, Braunschweig, Germany
SU	Stanford University Collection (in California Academy of Sciences, San Francisco, U.S.A.)
SW	Sammlung Peter Wirtz, formerly Freiburg, now in SMNS, Stuttgart, Germany
TFMC	Museo de Ciencias Naturales de Santa Cruz de Tenerife, Canary Islands, Spain
UF	Florida State Museum, University of Florida, Gainesville, U.S.A.
UMMZ	University of Michigan, Museum of Zoology, Ann Arbor, Michigan, U.S.A.
USNM	National Museum of Natural History, Smithsonian Institution, Washington D.C., U.S.A.
WAM	Western Australian Museum, Perth, Australia
ZIH	Zoologisches Institut der Universität Heidelberg (now in SMF and SMNS)
ZISP	Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia (formerly Academy of Sciences of the U.S.S.R., Leningrad, ZIL)
ZMA	Zoological Museum, University of Amsterdam, the Netherlands
ZMB	Zoologisches Museum, Museum für Naturkunde der Humboldt-Universität, Berlin, Germany
ZMH	Zoologisches Museum und Zoologisches Institut der Universität Hamburg, Germany
ZMMU	Zoological Museum, Moscow State University, Moscow, Russia
ZMUC	Zoologisk Museum, University of Copenhagen, Denmark
ZMUO	Zoological Museum, University of Oslo, Norway
ZSM	Zoologische Staatssammlung München, Germany

3 Type catalogue

Acanthuridae

Acanthurus pentazona Bleeker, 1850: Bleeker 1850e: 13 ["Batavia, in mari; 29 ''' (TL)"].
= *Acanthurus triostegus* (Linnaeus, 1758) (according to Beaufort & Chapman 1951: 144).
Holotype: **SMNS 10563** (old catalogue number: SMNS 760 cg), 23.6 mm SL, 29.2 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: RMNH 6322, 1 specimen.

Naseus vomer Klunzinger, 1871: Klunzinger 1871: 514 ("54 cm; selten; ich bekam nur ein Exemplar").
= *Naso vomer* (Klunzinger, 1871) (according to Dor 1984: 258).
? = *Naso hexacanthus* (Bleeker, 1855) (after Randall & Bell 1992: 351).
Holotype: **SMNS 2751**, 475 mm SL, 540 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: 1879.
Remarks: Additional Klunzinger material: NMW 31505, 1 specimen, 51 cm TL, no type. – ZMB 8181 and 10583, 2 specimens, no types.

Acestrorhynchidae

Xiphorhamphus lacustris Reinhardt in Lütken, 1875: Reinhardt in Lütken 1875: 136 ("Hab. in lacu Lagoa Santa").
= *Acestrorhynchus lacustris* (Reinhardt in Lütken, 1875) (according to Géry 1977: 327).
Syntype: **SMNS 2042**, 1 specimen, 122.1 mm SL, 142.3 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.
Remarks: Additional type material: MNHN 9587, 1 syntype (ex ZMUC). – ZMB 9192, 1 syntype. – ZMUC 185, 187, 188, 194, 196, 5 syntypes.

Ambassidae

Ambassis mülleri Klunzinger, 1880: Klunzinger 1880: 346–347, pl. 1, fig. 3 ("Port Darwin; 4 specimens; 6 cm").
Ambassis urotaenia (non Bleeker, 1852): Klunzinger 1872: 19 ("Südaustralien").
= *Ambassis muelleri* Klunzinger, 1880 (according to Paxton et al. 1989: 486).
Syntype: **SMNS 1693**, 1 specimen, 41.2 mm SL, 52.8 mm TL; Australia, South Australia, Murray River; Müller, F. von; cat. entry date: Aug. 1869.
Remarks: Klunzinger (1880: 347) erroneously stated as type locality "Port Darwin". The material on which Klunzinger's (1872) description of *Ambassis urotaenia* (non Bleeker, 1852) was based, which is the only lot of the species ever received in SMNS, originates from the Murray River (SMNS fish catalogue; original specimen label). Murray River is therefore the type locality.
Though Klunzinger (1880: 347) mentions four syntype specimens, only two existed in the SMNS collection; Klunzinger's specimen number was probably erroneous. One is still in the collection (SMNS 1693); the other one was retained by the AMS (see below).
Additional type material: AMS I.19301-001, 1 syntype (ex SMNS 1693).

Anabantidae

Anabas macrocephalus Bleeker, 1854: Bleeker 1854a: 430 ["Java; 9 specimens; 78–177 ''' (TL)"].
= *Anabas testudineus* (Bloch, 1795) (according to Weber & Beaufort 1922: 334).
Syntype: **SMNS 10564** (old catalogue number: SMNS 760 xo), 1 specimen, 67.0 mm SL, 85.7 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: NMV 45989–45990, 2 specimens, no types; locality not stated; Bleeker, P.; 1879; *Anabas testudineus*.

Anostomidae

Leporinus reinhardti Lütken, 1875: Lütken 1875: 129 ("Hab. in flumine Rio das Velhas nec non in lacu Lagoa Santa").
Valid (according to Géry 1977: 163).
Syntype: **SMNS 2040**, 1 specimen, 111.3 mm SL, 136.1 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.
Remarks: Additional type material: MNHN 9590, 1 syntypes. – NMW 68196, 1 syntypes. – ZMB 9189, 1 syntypes. – ZMUC 123, 126, 128, 131, 4 syntypes.

Leporinus taeniatus Reinhardt in Lütken, 1875: Reinhardt in Lütken 1875: 129–130 ("Hab. in flumine Rio das Velhas et affluentibus").
Valid (according to Géry 1977: 167).
Syntype: **SMNS 2041**, 1 specimen, 138.7 mm SL, 170.8 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.
Remarks: Additional type material: MNHN 9591, 2 syntypes. – ZMB 9190, 1 specimen, possibly syntype. – ZMUC 132, 133, 139, 143, 150, 5 syntypes.

Aplocheilidae

Haplochilus panchax blockii Arnold, 1911: Arnold 1911: 672, fig. 3 ("Zeylon"). Berkenkamp & Etzel 1986: 58–60 (neotype designation).
= *Aplocheilus blockii* (Arnold, 1911) (according to Berkenkamp & Etzel 1986: 58).
Remarks: **SMNS 4912**, 2 specimens, 23.8–31.0 mm SL, 30.7–38.3 mm TL; India, Cochin; Gerstner; cat. entry date: 1911. – SMNS 4912 was listed by Berkenkamp & Etzel (1986: 58) as paraneotypes. As ICZN does not allow the use of paraneotypes, the specimens in SMNS 4912 are not considered to have actual type status.

Apogonidae

Apogon conspersus Klunzinger, 1872: Klunzinger 1872: 18–19 ("Südaustralien; 11 cm"). Klunzinger 1880: 344–345, pl. 3, fig. 2 ("Port Philip; Hobson Bay; 10–12 cm").
= *Vincentia conspersa* (Klunzinger, 1872) (according to Gon 1988: 8; Paxton et al. 1989: 558–559).
Syntypes: **SMNS 1591**, 2 specimens, 53.1 mm and 91.7 mm SL, 65.0 mm and 112.0 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; Müller, F. von; cat. entry date: Oct. 1868. – **SMNS 1711**, 1 specimen, 75.1 mm SL, 81.8+ mm TL; Australia, Victoria, Port Philip, 38°07′S 144°48′E; Müller, F. von; cat. entry date: Jan. 1870. – **SMNS 1799**, 2 specimens, 76.4 mm and 76.8 mm SL, 82.5+ mm and 90.1 mm TL; Australia, Victoria, Port Philip, Queens Cliff, 38°16′S 144°40′E; Müller, F. von; cat. entry date: June 1871. – SMNS uncat., 1 skull; Australia, Victoria, Port Philip, Queens Cliff, 38°16′S 144°40′E; Müller, F. von; cat. entry date: June 1871 [not found; probably lost].
Remarks: Additional Müller material: AMS I.19303-001 [ex SMNS 1591], 1 syntype. – SMNS 1904, 1 specimen, 95.1 mm SL, 107.3+ mm TL, no syntype; Australia, Queensland, Port Denison; Apr. 1873.

Apogon monochrous Bleeker, 1856: Bleeker 1856: 34–35 ["Manado, Celebes, in mari; 11 specimens; 72–87 ‴ (TL)"].
= *Apogon moluccensis* Valenciennes in Cuvier & Valenciennes, 1832 (according to Fraser et al. 2002: 176).
Paralectotype: SMNS 760 av, 1 specimen; "Celebes"/Sulawesi, Indonesia; Bleeker, P.; cat. entry date: 1860 [not found; probably lost during World War II].
Remarks: Additional Bleeker material: RMNH 5567, lectotype of *Apogon monochrous* (as designated by Fraser et al. 2002: 182); locality not stated; Bleeker, P.; 1879. – RMNH 34751 (ex RMNH 5567), 7 paralectotypes of *Apogon monochrous*, 56–69 mm SL, 73–84 mm TL; locality not stated; Bleeker, P.; 1879. – RMNH 23964, 8 specimens, 42–45 mm SL, 52–56 mm TL, no types; locality not stated; Bleeker, P.; 1879. – RMNH 23965, 30 specimens, no types; locality not stated; Bleeker, P.; 1879.

Apogon punctatus Klunzinger, 1880: KLUNZINGER 1880: 345, pl. 3, fig. 2 ("King George's Sound; 13 cm").
= *Vincentia punctata* (Klunzinger, 1880) (according to PAXTON et al. 1989: 559).
Syntypes: **SMNS 2541**, 2 specimens, 106.0 mm and 112.6 mm SL, 127.1 mm and 132.9 mm TL; Australia, Western Australia, King George Sound, 35°03'S 117°57'E; MÜLLER, F. VON; cat. entry date: 4 Nov. 1878.
Remarks: GON (1988) refers to the larger specimen of SMNS 2541 as to the holotype of *Apogon punctatus*. KLUNZINGER, however, used 2 specimens as syntypes of the species (according to the old SMNS catalogue and inventory, handwritten by KLUNZINGER).
Additional MÜLLER material: AMS I.19302-001, 1 specimen, no type; Australia, Western Australia, King George Sound; MÜLLER, F. VON; 4 Nov. 1878.

Ariidae

Arius acutus Bleeker, 1846: BLEEKER 1846a: 167–168 ("Batavia, Java").
= *Arius argyropleuron* Valenciennes in Cuvier & Valenciennes, 1840 (according to WEBER & BEAUFORT 1913: 278).
Syntypes: **SMNS 10566** (old catalogue number: SMNS 817 ar), 4 specimens: specimen 1, 180.9 mm SL, 215.8 mm TL; specimen 2, 164.4 mm SL, 195.5 mm SL; specimen 3, 133.0 mm SL, 157.2 mm TL; specimen 4, 106.2 mm SL, 123.4 mm TL; "Indischer Archipel"/Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: BMNH 1863.12.4.67, 1 specimen, 143 mm SL, 162 mm TL, no type; locality not stated; BLEEKER, P.; 1863. – NMV 46581, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 15975, 2 syntypes; "Batavia, Java"/Jakarta, Java, Indonesia; BLEEKER, P.; 1879.

Arius gagoroides Bleeker, 1846: BLEEKER 1846a: 168 ("Batavia, Java, in mare").
Arius arius: BLEEKER 1858b: 73.
= *Arius maculatus* (Thunberg, 1792) (according to WEBER & BEAUFORT 1913: 284).
Syntypes: **SMNS 10567** (old catalogue number: SMNS 760 dc), 2 specimens: specimen 1, 216.7 mm SL, 256.8 mm TL; specimen 2, 173.6 mm SL, 214.7 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: NMV 45949, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 16007, 8 specimens, no types; locality not stated; BLEEKER, P.; 1879.

Arius leiotetocephalus Bleeker, 1846: BLEEKER 1846b: 292 ("Java").
= "*Arius*" *nella* (Valenciennes in Cuvier & Valenciennes, 1840) (according to KAILOLA 1999: 1858). Treated by some authors as valid.
Syntypes: SMNS 817 et, 2 specimens; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1861 [not found; probably lost during World War II].
Remarks: Additional BLEEKER material: RMNH 5277, 1 syntype; BLEEKER, P.; 1879. – RMNH 16011, 5 syntypes; "Batavia, Java"/Jakarta, Java, Indonesia; BLEEKER, P.; 1879.

Bagrus rhodonotus Bleeker, 1846: BLEEKER 1846a: 157 ("Batavia, Java").
= *Arius bilineatus* (Valenciennes in Cuvier & Valenciennes, 1840) (according to KAILOLA 1999: 1842).
Syntype: **SMNS 10568** (old catalogue number: SMNS 760 kn), 1 specimen, 132.7 mm SL, 162.0 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: NMV 46590, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 6085, 16 specimens, no types; locality not stated; BLEEKER, P.; 1879. – RMNH 15865, 5 syntypes of *Bagrus rhodonotus*; "Batavia, Java"/Jakarta, Java, Indonesia; January 1856 and 1858. – RMNH 15866, 2 specimens, no types; locality not stated; BLEEKER, P.; 1879.

Atherinidae

Atherina elongata Klunzinger, 1880: KLUNZINGER 1880: 394 ("King George's Sound; 7–8 cm").
= *Atherinosoma elongata* (Klunzinger, 1880) (according to PAXTON et al. 1989: 356).

Syntypes: SMNS 12188 (old catalogue number: SMNS 2574 c), 4 specimens; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; MÜLLER, F. VON; cat. entry date: 4 Nov. 1878 [no longer available at SMNS, jaws plus disintegrated remains now in the Australian Museum, Sydney, registered under AMS I.29726-001 and AMS I.29726-002].

Remarks: Additional MÜLLER material: NMW 71920, 2 syntypes.

Atherina gobio Klunzinger, 1884: KLUNZINGER 1884: 130, pl. 11, fig. 4, 4a ("10 cm").

Atherina cylindrica (non Valenciennes in Cuvier & Valenciennes, 1835): KLUNZINGER 1870: 834 ("Kosseir; 10 cm, selten größer; jederzeit gemein").

= *Hypoatherina temmincki* (Bleeker, 1853) (according to IVANTSOFF in SMITH & HEEMSTRA 1986: 383).

Syntypes of *Atheria gobio* and *Atherina cylindrica*: **SMNS 2772**, 3 specimens; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1879.

Remarks: The SMNS specimens are syntypes of both *Atherina cylindrica* Klunzinger, 1870 (primary homonym of *Atherina cylindrica* Valenciennes in Cuvier & Valenciennes, 1835), and of *Atherina gobio* Klunzinger, 1884, which was described as a replacement name for the former.

Additional KLUNZINGER material: ZMB 10579, 1 specimen.

Atherinichthys esox Klunzinger, 1872: KLUNZINGER 1872: 34–35 ("Port Philip; 14 cm"). KLUNZINGER 1880: 394.

= *Atherinason esox* (Klunzinger, 1872) (according to PAXTON et al. 1989: 355).

Syntypes: SMNS 1800, 2 specimens; Australia, Victoria, Port Philip, Queens Cliff, 38°16′S 144°40′E; MÜLLER, F. VON; cat. entry date: June 1871 [not found; probably lost].

Auchenipteridae

Auchenipterus lacustris Reinhardt in Lütken, 1874: REINHARDT in LÜTKEN 1874: 30–31 ("Hab. in flumine Rio das Velhas et in lacu Lagoa Santa dicto").

= *Trachelyopterus lacustris* (Reinhardt in Lütken, 1874) (according to FERRARIS in REIS et al. 2003: 478).

Syntype: SMNS 2051, 1 specimen; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; REINHARDT, J.; cat. entry date: Jan. 1876 [not found; probably lost].

Remarks: Additional type material: NMW 47402, 1 syntype? – ZMB 9179, 1 syntype. – ZMUC 91, 92, 93, 97, 4 syntypes.

Auchenipterus (Pseudauchenipterus) striatulus Steindachner, 1877: STEINDACHNER 1877: 656–659, pl. 5.

= *Parauchenipterus striatulus* (Steindachner, 1877) (according to FERRARIS in REIS et al. 2003: 478).

Syntype: **SMNS 1955**, 1 specimen; Brazil, State Rio de Janeiro, Rio Paraiba do Sul, at Campos, 21°45′S 41°18′W; AGASSIZ, A.; 1871.

Remarks: Additional type material: MCZ 25506, 1 syntype. – NMW 10852, 47445, 47446, 47447; 1, 5, 2 and 1 syntypes.

Bagridae

Bagrus flavus Bleeker, 1846: BLEEKER 1846a: 156 ("Batavia, Java").

Bagrus planiceps Valenciennes in Cuvier & Valenciennes, 1839: BLEEKER 1858b: 154.

= *Hemibagrus planiceps* (Valenciennes in Cuvier & Valenciennes, 1839) (according to TAN & NG 2000: 276).

Syntype: **SMNS 10570** (old catalogue number: SMNS 760 gs), 1 specimen, 99.8 mm SL, 125.6 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: NMV 46172, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 12039, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 15896, 6 specimens, no types; locality not stated; BLEEKER,

P.; 1879. – RMNH 15897, 4 syntypes of *Bagrus flavus*; "Batavia, Java"/Jakarta, Java, Indonesia; BLEEKER, P.; 1879.

Bagrus macronemus Bleeker, 1846: BLEEKER 1846a: 150 ("Batavia, Java, in fluviis"). Objectively invalid, primary homonym of *Bagrus macronemus* Ranzani, 1841.
= *Mystus singaringan* (Bleeker, 1846) (according to ROBERTS 1994: 252).
Syntypes: **SMNS 10571** (old catalogue number: SMNS 760), 2 specimens: specimen 1, 139.3 mm SL, 170.1 mm TL; specimen 2, 132.8 mm SL, 155.7 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: BMNH 1863.12.4.87, 1 specimen; locality not stated; BLEEKER, P.; 1863 [not found during a type search in the collection of the BMNH in 1989]. – RMNH 30597, 2 specimens, no types; "Sumatra"/Sumatera, "Borneo"/Kalimantan, Indonesia; BLEEKER, P.; 1879.
RMNH 2951 was designated as a neotype for *Bagrus macronemus* Bleeker, 1846 by ROBERTS (1994: 253). This neotype is invalid, as two syntypes are available at SMNS.

Bagrus sieboldii Bleeker, 1846: BLEEKER 1846a: 155 ("Batavia, Java; in fluviis").
= *Hemibagrus nemurus* (Valenciennes in Cuvier & Valenciennes, 1840) (according to KOTTELAT & LIM 1995: 45).
Syntype: **SMNS 10572** (old catalogue number: SMNS 760 mf), 1 specimen, 123.8 mm SL, 149.4 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: NMV 46454, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 8083, 1 specimen, no type; locality not stated; BLEEKER, P.; 1852. – RMNH 12032, 2 specimens, no types; locality not stated; BLEEKER, P.; 1879. – RMNH 15881, 5 syntypes of *Bagrus sieboldii*; "Batavia, Java"/Jakarta, Java, Indonesia; BLEEKER, P.; 1879. – RMNH 15884, 4 specimens, no types; locality not stated; BLEEKER, P.; 1879.

Pseudobagrus wittenburgii Popta, 1911: POPTA 1911: 335–339, 1 fig. ("Blagoweschtensk a. Amur; 25.V.1908").
= *Pelteobagrus wittenburgii* (Popta, 1911) (according to MO 1991: 137).
Syntypes: **SMNS 4390**, 2 specimens, 101–123 mm SL, 129–146 mm TL; Russia, Amur, at Blagoweschtensk (Blagovescensk), 50°17′N 127°32′E; WITTENBURG, P. VON; 25 May 1908.

Batrachoididae

Batrachus cirrhosus Klunzinger, 1871: KLUNZINGER 1871: 500–501 ("34 cm; selten").
= *Thalassothia cirrhosa* (Klunzinger, 1871) (according to DOR 1984: 53).
Syntype: **SMNS 1756**, 1 specimen, 280.4 mm SL, 337.2 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: May 1871.
Remarks: Additional type material: NMW 86595, 1 syntype. – ZMB 10589, 1 syntype.

Batrachus mülleri Klunzinger, 1880: KLUNZINGER 1880: 387, pl. 9, fig. 1 ("Port Darwin; 14 cm").
= *Halophryne diemensis* LeSueur, 1824 (according to LARSON & WILLIAMS 1997: 349).
Holotype: **SMNS 2490**, 122.6 mm SL, 145.4 mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28′S 130°50′E; MÜLLER, F. VON; coll. date: 15 Mar. 1878.

Belonidae

Belone appendiculatus Klunzinger, 1871: KLUNZINGER 1871: 580 ("47–100 cm; selten").
= *Tylosurus acus melanotus* (Bleeker, 1850) (according to DOR 1984: 65).
Syntype: **SMNS 1615**, 1 dry specimen, 796+ mm SL, 855+ mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: Jan. 1869.
Remarks: Additional type material: NMW 14235, 1 specimen, possibly syntype – SMF 1615, 1 specimen, possibly syntype; dry. – ZMB 10584, 10689, 2 syntypes.
An additional KLUNZINGER specimen (SMNS 3601, 1 specimen; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1894) cannot be considered as a syntype of the species, as it was apparently collected on KLUN-

ZINGER's second voyage to Kosseir, while true type materials were collected during the first voyage.

ESCHMEYER in FROESE & PAULY (2004) erroneously listed SMNS 1615 as "*SMF* 1615".

Belone groeneri Klunzinger, 1880: KLUNZINGER 1880: 414 ("Port Darwin; 60 cm").
= *Tylosurus gavialoides* (Castelnau, 1873) (according to PAXTON et al. 1989: 343).
Holotype: **SMNS 2601**, 537 mm SL, 587+ mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28′S 130°50′E; MÜLLER, F. VON; cat. entry date: Mar. 1879.

Belone leiurus Bleeker, 1850: BLEEKER 1850f: 94 ("Batavia, Java").
= *Strongylura leiura* (Bleeker, 1850) (according to COLLETTE 2003: 7).
Syntype: **SMNS 10573** (old catalogue number: SMNS 760 aa), 1 specimen, 316.4 mm SL, 336.3 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: BMNH 1866.5.2.4, 1 specimen, 525 mm SL, 576 mm TL; locality not stated; BLEEKER, P.; 1866. – RMNH 6946, 9 specimens; locality not stated; BLEEKER, P.

Belone melanurus Bleeker, 1849: BLEEKER 1849b: 11 ["Kammal, Surabaja; (several specimens; 145 ''' (maximum TL)"].
= *Tylosurus crocodilus crocodilus* (Peron & LeSueur, 1821) (according to COLLETTE 2003: 11).
Syntypes: **SMNS 10574**, 3 specimens: specimen 1, 324.1 mm SL, 352.8 mm TL; specimen 2, 323.6 mm SL, 351.3 mm TL; specimen 3, 271.7 mm SL, 293.4 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.

Berycidae

Beryx mülleri Klunzinger, 1880: KLUNZINGER 1880: 359–360, pl. 3, fig. 1 ("King George's Sound; 1 specimen; ca. 25 cm").
= *Centroberyx lineatus* (Cuvier, 1829) (according to PAXTON et al. 1989: 375).
Holotype: **SMNS 2571**, 208 mm SL, 270 mm TL; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; MÜLLER, F. VON; cat. entry date: 4 Nov. 1878.

Blenniidae

Entomacrodus lemuria Springer & Fricke, 2000: SPRINGER & FRICKE 2000: 391–395, figs. 3–4 ("Réunion, west coast, 250 m north Boucan-Canot, 5 km WSW Saint-Paul, 21°01′35″S, 55°13′36″E, near black rocks on shore").
Valid (according to ESCHMEYER in FROESE & PAULY 2004).
Holotype: **SMNS 20827**; Indian Ocean, Réunion Island, W coast, 250 m N Boucan-Canot, 5 km WSW Saint-Paul, 21°01′35″S, 55°13′36″E, near black rocks on shore, 0–1.2 m depth; FRICKE, R. & RIBES, S.; 18 Dec. 1998.
Paratypes: **SMNS 21372**, 4 specimens; same data as holotype.
Remarks: Additional type material: AMS I.39536-001, 5 paratypes. – CAS 209025, 5 paratypes. – ROM 71976, 5 paratypes. – SAIAB 60472, 5 paratypes. – USNM 339747, 341905, 357266; 57, 4 and 1 paratypes.

Istiblennius spilotus Springer & Williams, 1994: SPRINGER & WILLIAMS 1994: 155–158, figs. 52–54 ("Pakistan, tidepools at Boleji Point, Karachi"; also Western Indian Ocean from Gulf of Oman south to northern South Africa).
Valid (according to FRICKE 1999a: 483).
Paratype: **SMNS 13136**, 1 specimen; Kenya, Malindi, 3°13′N 40°07′E; WIRTZ, P.; July 1978.
Remarks: Additional type material: USNM 220913, holotype. – BMNH 1888.12.29.150–153, 4 paratypes. – BMNH 1899.12.29.30–39, 10 paratypes. – BPBM 21353, 4 paratypes. – CAS 35597, 11 paratypes. – SAIAB 8648, 3 paratypes. – USNM 199617, 217331, 296450, 296451, 296463, 296465, 296470, 296479, 325131; 2, 4, 3, 5, 3, 1, 3, 4 and 7 paratypes.

Lipophrys bauchotae Wirtz & Bath, 1982: Wirtz & Bath 1982: 226–231, figs. 1–2 ("Cameroon").
Valid (according to Bath 1996: 91).
Paratype: **SMNS 13123** (ex SW 321), 1 specimen, 27.9 mm SL, 33.0 mm TL; Cameroon, Bay of Victoria, Snake Island, 4°1′N 9°12′E; Wirtz, P.; coll. date: Dec. 1979.
Remarks: Additional type material: SMF 15695, holotype. – ANSP 143066, 34 paratypes. – MNHN 1971-0028, 6 paratypes. – SMF 15696 and 15697, 15 and 26 paratypes. – ZMUC P.75359, 1 paratype.

Lipophrys caboverdensis Wirtz & Bath, 1989: Wirtz & Bath 1989: 15–26, figs. 1–13 ("Cape Verde Islands").
Valid (according to Bath 1996: 91).
Paratypes: **SMNS 13124** (ex SW 447), 4 specimens: 17.7 mm, 21.0 mm, 25.0 mm and 29.9 mm SL – 20.7 mm, 24.4 mm, 29.1 mm and 34.8 mm TL; Cape Verde Islands, Sal Island, Murdeira Bay, 16°45′N 22°55′W; Wirtz, P.; coll. date: Apr. 1986. – **SMNS 13125** (ex SW 451), 6 specimens: 13.7 mm, 15.5 mm, 17.1 mm, 18.4 mm, 19.8 mm and 21.5 mm SL – 16.4 mm, 19.0 mm, 20.4 mm, 22.4 mm, 23.3 mm and 25.1 mm TL; Cape Verde Islands, Santiago Island, Praia, 14°55′N 23°31′W; Wirtz, P.; coll. date: Apr. 1986. – **SMNS 13126** (ex SW 442), 5 specimens: 20.2 mm, 21.9 mm, 22.2 mm, 22.7 mm and 23.2 mm SL – 23.7 mm, 25.8 mm, 26.0 mm, 27.0 mm and 27.3 mm TL; Cape Verde Islands, Sal Island, 1 km N Palmeira, 16°46′20″N 22°59′W; Wirtz, P.; coll. date: Apr. 1986.
Remarks: Additional type material: SMF 18002, holotype. – RMNH 29591, 29598, 29599; 1, 1 and 2 paratypes. – SMF 18003 to 18005; 5, 8 and 2 paratypes. – USNM 282944, 12 paratypes.

Mimoblennius lineathorax Fricke, 1999: Fricke 1999a: 484–486, fig. 8 ("Indian Ocean, République Française, Département Réunion, Réunion Island, east coast, Anse des Cascades, 8 km SSE Sainte-Rose, 21°11′08″S 55°49′36″E, rocks 10 m E of harbour, rocks covered with algae, heavy surf, 0–1.5 m depth").
Valid (according to Eschmeyer in Froese & Pauly 2004).
Holotype: **SMNS 20815**, ♂, 26.1 mm SL; Indian Ocean, Réunion Island, E coast, Anse des Cascades, 8 km SSE Sainte-Rose, 21°11′08″S 55°49′36″E, rocks 10 m E of harbour, rocks covered with algae, heavy surf, 0–1.5 m depth; Fricke, R.; 12 Dec. 1998, 14:00–15:45 h.
Paratypes: **SMNS 16996**, 1 specimen; same locality as holotype, 0.5–0.7 depth; Fricke, R.; 7 Sep. 1995, 14:00–14:30 h. – **SMNS 20722**, 3 specimens; same data as holotype.
Remarks: Additional type material: MNHN 1999-0489 and 1999-0490, 2 paratypes. – USNM 355883, 2 paratypes.

Parablennius dialloi Bath, 1990: Bath 1990a: 42–48, figs. 37–42 ("Senegal").
Valid (according to Eschmeyer in Froese & Pauly 2004).
Paratypes: **SMNS 13120** (ex SW 394), 1 specimen, 44.8 mm SL, 51.2 mm TL; Senegal, Pointe Senti, Joal, 14°10′N 16°51′W; IFAN (Institut Français d'Afrique Noire); coll. date: 20–21 July 1955. – **SMNS 13121** (ex SW 468), 1 specimen, 44.2 mm SL, 50.9 mm TL; same data as SMNS 13120.
Remarks: Additional type material: MNHN 1987-2109, holotype. – IFAN 55-2904, 13 paratypes. – MNHN 1987-2110, 1 paratype. – SB uncat., 1 paratype. – SMF 18009, 2 paratypes. – USNM 291683, 1 paratype.

Parablennius salensis Bath, 1990: Bath 1990a: 29–35, figs. 17–23 ("Cape Verde Islands").
Valid (according to Bath 1996: 91).
Paratypes: **SMNS 13116** (ex SW 445), 2 specimens, 40.1 mm and 48.8 mm SL, 47.6 mm and 58.3 mm TL; Cape Verde Islands, Sal Island, Murdeira Bay, 16°45′N 22°55′W; Wirtz, P.; coll. date: Apr. 1986. – **SMNS 13117** (ex SW 443), 1 specimen, 36.0 mm SL, 42.4 mm TL; Cape Verde Islands, Sal Island, Palmeira, 16°46′N 22°59′W; Wirtz, P.; coll. date: Apr. 1986. – **SMNS 13118** (ex SW 448), 1 specimen, 34.5 mm SL, 40.9 mm TL; Cape Verde Islands, Santiago Island, Tarrafal, 15°17′N 23°46′W; Wirtz, P.; coll. date: Apr. 1986.

Remarks: Additional type material: SMF 18012, holotype. – SB uncat., 1 paratype. – SMF 18013 and 18014, 2 paratypes. – USNM 291685, 1 paratype.

Parablennius sierraensis Bath, 1990: Bath 1990a: 35–40, figs. 26–31 ("Sierra Leone").
Valid (according to Bath 1996: 91).
Paratypes: **SMNS 13119** (ex SW 386), 4 specimens: 22.1 mm, 23.1 mm, 25.5 mm and 29.5 mm SL – 26.6 mm, 26.6 mm, 30.2 mm and 35.6 mm TL; Sierra Leone, Cape Sierra, 8°28′N 13°26′W; Wirtz, P.; coll. date: Feb. 1983.
Remarks: Additional type material: SMF 18010, holotype. – SB uncat., 2 paratypes. – SMF 18011, 1 paratype. – USNM 291684, 2 paratypes.

Petroscirtes kraussii Klunzinger, 1871: Klunzinger 1871: 497 ("4 cm; zwischen Steinen und Korallen am Abhange; nicht selten").
= *Enchelyurus kraussii* (Klunzinger, 1871) (according to Dor 1984: 225).
Paralectotypes: **SMNS 1868**, 2 specimens: 28.2 mm and 29.0+ mm SL, 32.3 mm and 33.0+ mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: 1873.
Remarks: Additional type material: ZMB 8029, lectotype (as designated by Springer 1972: 7). – SMF 1662, 2 paralectotypes. – ZISP 2647, 2 paralectotypes. – ZMB 10506, 1 paralectotype.

Praealticus labrovittatus Bath, 1992: Bath 1992: 256–261, figs. 20–30, 46a–f ("Palau- und Marianen-Inseln").
Valid (according to Springer 2001: 3546).
Paratypes: **SMNS 14315**, 8 specimens: 25.5 mm, 32.0 mm, 32.1 mm, 33.3 mm, 35.4 mm, 39.0 mm, 39.1 mm and 47.5 mm SL – 30.7 mm, 38.4 mm, 38.9 mm, 40.9 mm, 42.6 mm, 47.1 mm, 47.2 mm and 56.9 mm TL; Northern Marianas Islands, Rugusa Beach, Pagan Island; Larson, H. K. & Powell, S.; coll. date: 8 Apr. 1971.
Remarks: Additional type material: CAS 74043, holotype. – CAS 75778, 12 paratypes. – SMF 18066, 1 paratype. – SMF 18069, 1 specimen, possibly paratype. – SMF 28009, 4 specimens, possibly paratypes. – USNM 317332, 1 paratype.

Rhabdoblennius nigropunctatus Bath, 2004: Bath 2004: 8–12, figs. 8–9, tab. 3 ("Kingdom of Tonga, E'ua Island, Ha'aluma Beach on SW coast, 21°25′45″S 174°56′50″W, 0–3 feet depth, reef crest and tidal flat with brown and green algae in surge zone, scattered live coral"; also Tongatapu/Tonga; Ono-i-Lau, Lau Group/Fiji).
Valid.
Paratype: **SMNS 23503**, 1 ♂, 37.4 mm SL; Kingdom of Tonga, E'ua Island, Ha'aluma Beach on SW coast, 21°25′45″S 174°56′50″W, 0–3 feet depth, reef crest and tidal flat with brown and green algae in surge zone, scattered live coral; Williams, J. T., Collette, B. B., Johnson, G. D., Wiley, E. O., Smith, D. G., Powers, E. A. & McCormick, M. A.; 4 Nov. 1993.
Remarks: Additional type material: USNM 335240, holotype. – BPBM 10834, 10838, 10840, 37989; 10, 7, 4 and 4 paratypes. – USNM 236053 and 373498, 1 and 24 paratypes.

Rhabdoblennius papuensis Bath, 2004: Bath 2004: 16–18, fig. 12, tab. 4 ("Papua New Guinea, Ninigo Islands, Meman Island, mid-east shore, 1°12′40″S 144°16′59″E, 0–1.2 m depth").
Valid.
Paratype: **SMNS 23502** (ex USNM 293104), 1 ♂, 34.7 mm SL, 40.7 mm TL; Papua New Guinea, Meman Island, mid-east shore, Ninigo Islands, 1°12′40″S 144°16′59″E, 0–1.2 m depth; Springer, V. G. et al.; 27 Oct. 1978.
Remarks: Additional type material: USNM 293104, holotype. – BPBM 39304, 1 paratype. – USNM 373497, 16 paratypes.

Salarias mülleri Klunzinger, 1880: Klunzinger 1880: 388–389 ("Hobson Bay; 7 cm").
= *Istiblennius muelleri* (Klunzinger, 1880) (according to Smith-Vaniz & Springer 1971: 57).
Holotype: **SMNS 1579**, 72.0 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; Müller, F. von; cat. entry date: Oct. 1868.

Salarias punctillatus Klunzinger, 1880: KLUNZINGER 1880: 389 ("Port Darwin; 10 cm").
= *Salarias fasciatus* (Bloch, 1786) (according to BATH & RANDALL 1991: 254).
Holotype: **SMNS 2495**, 82.3 mm SL, 99.0 mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28′S 130°50′E; MÜLLER, F. VON; cat. entry date: Aug. 1878.
Remarks: SMITH-VANIZ & SPRINGER (1971) refered to the 2 specimens of SMNS 3660 as to the syntypes of *Salarias punctillatus*. They had seen these specimens in the SMF collection, where they were on loan. SMNS 3660, however, was collected by A. KRÄMER in Samoa in 1895, 15 years after the original description of the species had been published. SMNS 3660 therefore does not represent type material.

Scartella caboverdiana Bath, 1990: BATH 1990b: 397–401, figs. 1–3 ("Cape Verde Islands").
Valid (according to BATH 1996: 92).
Paratypes: **SMNS 13122** (ex SW 439), 12 specimens: 24.7 mm, 24.9 mm, 25.2 mm, 25.4 mm, 25.7 mm, 27.0 mm, 27.2 mm, 27.4 mm, 28.0 mm, 28.1 mm, 28.1 mm, 29.5 mm SL – 30.2 mm, 30.4 mm, 30.8 mm, 31.2 mm, 31.9 mm, 32.5 mm, 33.0 mm, 33.6 mm, 33.7 mm, 34.1 mm, 34.4 mm, 35.9 mm TL; Cape Verde Islands, Sal Island, Palmeira, 16°46′N 22°59′W; WIRTZ, P.; coll. date: Apr. 1986. – **SMNS 13524** (ex SW 439), 3 specimens; Cape Verde Islands, Sal Island, 1 km N Palmeira, 16°45′30″N 22°59′W; WIRTZ, P.; coll. date: Mar. 1986.
Remarks: Additional type material: SMF 18032, holotype. – SB uncat., 2 paratypes. – SMF 18033, 4 paratypes. – SMF 18035, 5 paratypes.

Bothidae

Pseudorhombus mülleri Klunzinger, 1872: KLUNZINGER 1872: 40 ("Hobson Bay; 15 cm"). KLUNZINGER 1880: 407, pl. 9, fig. 2.
= *Arnoglossus muelleri* (Klunzinger, 1872) (according to SCOTT et al. 1974: 107).
Holotype: **SMNS 1668**, 134.3 mm SL, 151.4+ mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; inv. date: May 1869.

Caesionidae

Caesio suevicus Klunzinger, 1884: KLUNZINGER 1884: 46, pl. 5, fig. 2 ("häufigste und größte (bis 27 cm) [Art]")
= *Caesio suevica* Klunzinger, 1884 (according to DOR 1984: 137; CARPENTER 1988: 41).
Syntype: **SMNS 3450**, 1 specimen, 119.8 mm SL, 144.6 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1894.
Remarks: Additional type material: NMW 77818, 2 syntypes. – ZMB 10575, 1 syntype.

Callichthyidae

Corydoras ehrhardti Steindachner, 1910: STEINDACHNER 1910: 60–61.
Valid (according to NIJSSEN & ISBRÜCKER 1980: 205).
Paralectotypes: **SMNS 4524**, 2 specimens, 44 mm and 47 mm SL, 58 mm and 60 mm TL; Brazil, Itapocu (Rio Itajai), "Gebirgsflüsse"; EHRHARDT, W.; coll. date: 1909; cat. entry date: 1912.
Remarks: Additional type material: NMW 61104, lectotype (as designated by NIJSSEN & ISBRÜCKER 1980: 205). – BMNH 1910.3.17.1, 1 paralectotype. – MZUT 1324, 1 paralectotype. – NMW 46711, 46713, 46716, 46718; 6, 6, 31 and 13 paralectotypes. – ZMA 110470, 5 paralectotypes.

Callionymidae

Callionymus afilum Fricke, 2000: FRICKE 2000a: 48–52, fig. 24 ("Australia, Northern Territory, Arafura Sea"; also Western Australia, northern Queensland/Australia; Papua New Guinea).
Valid (according to FRICKE 2002a: 11).
Paratypes: **SMNS 21375**, 2 specimens, 126.1–142.3 mm SL; Australia, Northern Territory, Arafura Sea; R/V 'Soela'; 18 Nov. 1980.
Remarks: Additional type material: AMS I.21943-004, holotype. – AMS I.21842-028 and

I.21943-021, 4 and 1 paratypes. – CSIRO 754, H.745-02, H.1466-01, H.1479-01, H.4643-02, 5 paratypes. – KFRS F.01705 and F.02709, 2 paratypes.

Callionymus colini Fricke, 1993: Fricke 1993a: 2–4, fig. 1 ("Papua New Guinea, Port Moresby, Horseshoe Barrier Reef, 9°30'S 147°10'E, 26 m").
Valid (according to Fricke 2002a: 16).
Holotype: **SMNS 12260**, 1 ♂, 23.5 mm SL; Papua New Guinea, Port Moresby, Horseshoe (barrier) reef, 9°30'S 147°10'E, 26 m depth; Colin, P.; coll. date: 27 Apr. 1987.
Paratypes: **SMNS 12261**, 1 ♀, 25.2 mm SL; same data as holotype. – **SMNS 12263**, 2 ♀♀, 12.9–23.8 mm SL; same locality as holotype; Colin, P.; 26 Apr. 1987.
Remarks: Additional type material: BPBM 34754, 2 paratypes.

Callionymus comptus Randall, 1999: Randall 1999: 190–193, pl. 1A–B ("Hawaiian Islands, O'ahu Island, Kahe Point, sand patch in reef, 3 m depth"; also Maui/Hawaiian Islands).
Valid (according to Fricke 2002a: 16).
Paratype: **SMNS 19357**, 1 specimen; Hawaiian Islands, Oahu Island, Kaena Point, 21°35'N 158°127'W, 11 m depth; Holcom, R. R.; Nov. 1995.
Remarks: Additional type material: BPBM 37290, holotype. – BPBM 37612, 37243, 37849, 3 paratypes. – NSMT-P 54410, 1 paratype. – USNM 347771, 2 paratypes.

Callionymus curvispinis Fricke & Zaiser Brownell, 1993: Fricke & Zaiser Brownell 1993: 2–4, fig. 1 ["Japan, Izu Islands, Miyake-jima: Igaya Bay, 16–18 m (depth)"].
Valid (according to Fricke 2002a: 17–18).
Paratypes: **SMNS 12078**, 1 ♂, 40.3 mm SL; Japan, Izu Islands, Miyake-jima, Igaya Bay, 34°05'N 139°32'E, coarse sand and rubble, 16 m depth; Zaiser, M. J. & Moyer, J. T.; coll. date: 18 Aug. 1984. – **SMNS 12079**, 1 ♂, 45.2 mm SL and 1 ♀, 29.2 mm SL; same locality as SMNS 12078, coarse sand and algae, 17 m depth; Moyer, J. T., Yoshikawa, T. & Asoh, K.; coll. date: 19 Aug. 1984.
Remarks: Additional type material: NSMT-P 35106, holotype. – NSMT-P 35107 to 35111; 1, 1, 1, 2 and 1 paratypes.

Callionymus futuna Fricke, 1998: Fricke 1998a: 3–6, fig. 1 ("Wallis and Futuna, Futuna Island shelf, 14°13'30"S 178°10'18"W, 224–252 m depth").
Valid (according to Fricke 2002a: 22).
Paratype: **SMNS 18823**, 1 ♂, 81.5 mm SL; Wallis and Futuna, Futuna Island shelf, 14°19'30"S 178°04'30"W, 245–440 m depth; Séret, B., Cruise M7, St. CP.508; 11 May 1992.
Remarks: Additional type material: MNHN 1995-0521, holotype. – MNHN 1995-0522, 2 paratypes.

Callionymus gardineri rivatoni Fricke, 1993: Fricke 1993b: 365–368, fig. 1 ("Baie de Saint-Vincent, Grande Terre, New Caledonia; trawled at depths of 15–110 m").
Valid as *Callionymus rivatoni* Fricke, 1993 (according to Fricke 2002a: 39).
Paratypes: **SMNS 12271**, 1 ♂, 35.0 mm SL; New Caledonia, Île de Sable, ca. 425 km NW Nouméa, 19°37'18"S 163°52'24"E, 37–38 m depth; R/V 'Alis'; coll. date: 26 Oct. 1989. – **SMNS 12272**, 1 ♀, 33.5 mm SL; New Caledonia, 30 km SW Île de Pins, ca. 100 km SE Nouméa, 22°31'48"S 167°07'30"E, 67–71 m depth; R/V 'Vauban'; coll. date: 21 Jan. 1985.
Remarks: Additional type material: MNHN 1993-0120, holotype. – MNHN 1993-0119, 1 paratype.

Callionymus leucopoecilus Fricke & Lee, 1993: Fricke & Lee 1993: 275–279, fig. 1 ("Korea, Uen-dong, Kunsan-shi, Chollabuk-do, 35°51'N 126°40'E").
Valid (according to Fricke 2002a: 28).
Holotype: **SMNS 10100**, ♂, 84.1 mm SL; South Korea, W coast, Kunsan-shi, Uen-dong, 35°51'N 126°40'E; Lee, C.-L.; coll. date: 10 Oct. 1989.
Remarks: Additional type material: BKNU 331, 1 paratype.

Callionymus melanotopterus Bleeker, 1851: Bleeker 1851i: 31 ["Batavia, Java; 2 specimens; 72–92 '" (TL)"].

Valid (according to FRICKE 1983: 214; FRICKE 2002a: 32).
Syntypes: **SMNS 10576** (old catalogue number: SMNS 760 fu), 2 specimens: specimen 1, 74.7 mm SL, 92.2 mm TL; specimen 2, 58.1 mm SL, 71.8 mm TL; "Batavia, Java"/Jakarta, Java, Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: BMNH 1880.4.21.154, 1 specimen, 63.6 mm SL, 84.4 mm TL, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 6213, 5 specimens, 68.9 mm, 70.1 mm, 77.7 mm, 78.5 mm and 78.6 mm TL; BLEEKER, P.
The BMNH and RMNH specimens do not fit in length and cannot be regarded as syntypes. The above two SMNS specimens are the only syntypes of this species.

Callionymus ocellatus Pallas, 1770: PALLAS 1770: 25–28, pl. 4, figs. 1–3 ("Amboina").
= *Synchiropus ocellatus* (Pallas, 1770) (according to FRICKE 2002a: 61).
Neotype: **SMNS 21263**, ♂, 72.8 mm SL, 94.3 mm TL; Philippines, Santa Rosa, Lapu Lapu City, Cebu Island, 10°19′S 123°57′E; Tropical Fish Exporter; Mar. 1980.
Remarks: Neotype designation by FRICKE (2000a: 32–33, fig. 15).

Callionymus persicus izuensis Fricke & Zaiser Brownell, 1993: FRICKE & ZAISER BROWNELL 1993: 4–7, fig. 2 ["Japan, Izu Islands, Miyake-jima: Igaya Bay, 16–18 m (depth)"].
Valid as *Callionymus izuensis* Fricke & Zaiser Brownell, 1993 (according to FRICKE 2002a: 25).
Paratypes: **SMNS 11569**, 1 specimen, 15.5 mm SL; Japan, Izu Islands, Miyake-jima, Igaya Bay, 34°05′N 139°32′E, 16 m depth; ZAISER, M. J. & MOYER, J. T.; coll. date: 18 Sep. 1983. – **SMNS 11570**, 1 ♀, 42.8 mm SL; same locality as SMNS 11569, 17 m depth; ZAISER, M. J. & MOYER, J. T.; coll. date: 17 Aug. 1984. – **SMNS 11571**, 1 ♂, 43.2 mm SL; same locality as SMNS 11569, 17 m depth; ZAISER, M. J. & MOYER, J. T.; coll. date: 16 Aug. 1984.
Remarks: Additional type material: NSMT-P 35099, holotype. – NSMT-P 35100 to 35105; 1, 1, 2, 1, 1 and 1 paratypes.

Callionymus sereti Fricke, 1998: FRICKE 1998a: 6–9, fig. 2 ("Wallis and Futuna, Futuna Island shelf, 14°19′30″S 178°04′18″W, 245–400 m depth").
Valid (according to FRICKE 2002a: 41).
Paratype: **SMNS 18824**, 1 ♀, 57.1 mm SL; Wallis and Futuna, Futuna Island shelf, 14°19′30″S 178°04′18″W, 245–400 m depth; SÉRET, B., Cruise M7, St. CP.505; 11 May 1992.
Remarks: Additional type material: MNHN 1995-0523, holotype.

Callionymus superbus Fricke, 1983: FRICKE 1983: 442–448, fig. 131 ("Indonesia").
Valid (according to FRICKE 2002a: 43).
Paratype: **SMNS 8561** (ex Sammlung Fricke SF P.509-1983-018), 1 ♂, 88.2 mm SL; Indonesia, Bali, Jimbaran Beach, 8°46′S 115°11′E, 6–10 m depth; GLOERFELT-TARP, T.; coll. date: 8 Aug. 1982.
Remarks: Additional type material: RMNH 6219, holotype. – NTM uncat., 1 paratype. – RMNH 28787, 4 paratypes. – ZMB 12482, 1 paratype.

Callionymus tethys Fricke, 1993: FRICKE 1993b: 369–371, fig. 2 ("New Caledonia and Loyalty Islands; depths of 10–53 m").
Valid (according to FRICKE 2002a: 43).
Paratypes: **SMNS 12266**, 1 ♀, 36.0 mm SL; New Caledonia, NE coast, off Cap Baye, 21°01′36″S 165°34′42″E, 32–33 m depth; R/V 'Vauban'; coll. date: 9 Jan. 1987. – **SMNS 12267**, 2 ♂♂, 44.2–60.2 mm SL; New Caledonia, submarine bank ca. 500 km WNW Nouméa, 20°38′12″S 162°44′12″E, 23–24 m depth; R/V 'Vauban'; coll. date: 13 Jan. 1987. – **SMNS 12268**, 1 ♀, 43.2 mm SL; same area as SMNS 12267, 22°18′30″S 166°13′48″E, 10 m depth; R/V 'Vauban'; coll. date: 25 May 1984. – **SMNS 12269**, 4 ♂♂, 16.3–28.0 mm SL; New Caledonia, 30 km W Île Pott, ca. 420 km NW Nouméa, 19°27′18″S 163°16′18″E, 48 m depth; R/V 'Alis'; coll. date: 31 Oct. 1989.
Remarks: Additional type material: MNHN 1993-0136, holotype. – MNHN uncat. and 1993-0124 to 1993-0136, 14 paratypes.

Synchiropus claudiae Fricke, 1990: Fricke 1990: 2–9, fig. 1 ("Papua New Guinea and Solomon Islands").
Valid (according to Fricke 2002a: 54).
Holotype: **SMNS 9048**, ♂, 16.9 mm SL; Papua New Guinea, Madang, barrier reef, 5°15′S 145°50′E, 5 m depth; Colin, P.; coll. date: 19 Oct. 1986.
Paratypes: **SMNS 8466**, 1 ♂, 17.4 mm SL; Papua New Guinea, Port Moresby, Baracao Reef, 9°30′S 147°10′E, 10 m depth; Colin, P.; coll. date: 22 Mar. 1987. – **SMNS 8479**, 1 ♀, 16.3 mm SL; same locality as SMNS 84660, 8 m depth; Colin, P.; coll. date: 7 Mar. 1987. – **SMNS 9049**, 1 ♂, 16.0 mm SL and 1 ♀, 13.0 mm SL; same data as holotype.
Remarks: Additional type material: BPBM 16113, 1 paratype, questionably identified as *Synchiropus springeri* Fricke, 1983 by Fricke (2002: 66).

Synchiropus grandoculis Fricke, 2000: Fricke 2000a: 69–71, fig. 33 ("Western Australia, 70 km SE Rowley Shoals, 18°01′S 118°25′E, 351–353 m depth").
Valid (according to Fricke 2002a: 55).
Paratypes: **SMNS 12822**, 2 specimens, 117.6–135.6 mm SL; Australia, Western Australia, 70 km SE Rowley Shoals, 18°01′S 118°25′E, 351–353 m depth; Sinclair, N. & Berry, P.; 24 Aug. 1983.
Remarks: Additional type material: WAM P.20418-001, holotype. – NTM S.12728-041, 1 paratype.

Synchiropus hawaiiensis Fricke, 2000: Fricke 2000a: 71–75, fig. 34 ("Hawaiian Islands, 20°41′06″N 156°41′18″W, 292–296 m depth"; also Pailolo Channel/Hawaiian Islands).
Valid (according to Fricke 2002a: 55).
Paratypes: **SMNS 21816**, 10 specimens, 73.9–121.6 mm SL; Hawaiian Islands, Pailolo Channel, between Maui and Molokai Islands, 21°02′N 156°45′W, 234 m depth; R/V 'Townsend Cromwell', Cruise 40, St. TC 40-62; 19 Nov. 1968. – **SMNS 21817**, 4 specimens, 104.8–112.3 mm SL; Hawaiian Islands, North Maui Island, 21°04′N 156°30′W, 274–318 m depth; R/V 'Townsend Cromwell', Cruise 40, St. TC 40-92; 25 Nov. 1968. – **SMNS 21929**, 4 specimens, 81.5–115.6 mm SL; Hawaiian Islands, Pailolo Channel, 21°03′01″N 156°45′04″W – 21°07′0″N 156°50′03″W, 229 m depth; R/V 'Townsend Cromwell', Cruise 40, St. TC 40-63; 19 Nov. 1968.
Remarks: Additional type material: USNM 314624, holotype. – BPBM 9840, 24219, 24244, 24358; 1, 9, 16 and 14 paratypes. – USNM 314596, 314598, 314609, 314610, 314613, 314616, 315443, 315445, 344611; 2, 1, 2, 2, 4, 2, 5, 4 and 3 paratypes.

Synchiropus kuiteri Fricke, 1992: Fricke 1992c: 82–83, figs. 1–2 ("Flores, Indonesia; sand bottom, 4 m depth").
Valid (according to Fricke 2002a: 57).
Holotype: **SMNS 12825**, ♂, 8.4 mm SL; Indonesia, Timur Province, Nusa Tenggara, Flores Island, Bay of Maumere, 10 km E Maumere, 8°38′00″S 122°18′38″E, sand bottom, 4 m depth; Kuiter, R. H.; coll. date: 29 May 1991.

Synchiropus novaecaledoniae Fricke, 1993: Fricke 1993b: 372–374, fig. 3 ("New Caledonia; depths of 225–280 m, on the submarine ridge SE of the Île des Pins").
Valid (according to Fricke 2002a: 60–61).
Paratypes: **SMNS 12539**, 1 ♀, 33.1 mm SL; New Caledonia, submarine bank 210 km SE Nouméa, 23°21′12″S 168°04′54″E, 225–270 m depth; R/V 'Alis'; coll. date: 14 Sep. 1989. – **SMNS 12540**, 2 ♀♀, 33.7–35.0 mm SL; New Caledonia, submarine bank 255 km SE Nouméa, 23°41′12″S 168°00′30″E, 240–280 m depth; R/V 'Alis'; coll. date: 7 Sep. 1989.
Remarks: Additional type material: MNHN 1993-0140, holotype. – MNHN 1993-0138 and 1993-0139, 2 paratypes.

Synchiropus orstom Fricke, 2000: Fricke 2000a: 33–38, fig. 16 ("New Caledonia, Norfolk Ridge, East Jumeau Seamount, 23°45′52.2″S 168°16′57″E, 402 m depth"; also Aztèque Seamount/Norfolk Ridge, New Caledonia).
Valid (according to Fricke 2002a: 62).
Paratypes: **SMNS 11612**, 1 ♂, 105.5 mm SL; New Caledonia, Norfolk Ridge, Aztèque Seamount, 23°37′30″S 167°42′06″E, 460 m depth; R/V 'Alis', St. Aztèque 7; 14 Feb. 1990.

– **SMNS 21276**, 1 ♀, 104.3 mm SL; New Caledonia, East Jumeau Seamount, 23°45′52.2″S 168°16′57″E, 402 m depth; DEBITUS, C. & R/V 'Alis', Cruise SMIB8, St. DW.179; 30 Jan. 1993.

Remarks: Additional type material: MNHN 1999-1254, holotype.

Synchiropus richeri Fricke, 2000: FRICKE 2000a: 39–41, fig. 19 ("New Caledonia, Grande Terre, E slope, 30 km E Thio, 21°43′03″S 166°38′34.2″E, 565 m depth").

Valid (according to FRICKE 2002a: 64–65).

Paratypes: **SMNS 21281**, 4 specimens, 80.8–84.2 mm SL; New Caledonia, Grande Terre, E slope, 30 km E Thio, 21°43′03″S 166°38′34.2″E, 565 m depth; RICHER DE FORGES, B. & R/V 'Alis', Cruise BATHUS 1, St. 708; 19 Mar. 1993.

Remarks: Additional type material: MNHN 1999-1253, holotype.

Synchiropus rosulentus Randall, 1999: RANDALL 1999: 200–204, pl. 1G–H ("Hawaiian Islands, O'ahu Island, off Sampan Channel to Kane'ohe Bay, spur and groove habitat, 12 m depth"; also Maui/Hawaiian Islands; Midway Atoll; Johnston Atoll).

Valid (according to FRICKE 2002a: 65).

Paratypes: **SMNS 20269**, 2 specimens; Hawaiian Islands, Oahu Island, Sampan Channel to Kaneohe Bay, 21°27′N 157°47′W, 13–15.5 m depth; GREENFIELD, D. W. & COLE, K.; 8 July 1993.

Remarks: Additional type material: BPBM 37260, holotype. – AMS I.38795-001, 2 paratypes. – BPBM 34807, 36806, 37123, 37613, 37855, 38397, 38398, 38399; 1, 1, 1, 4, 1, 1, 1 and 1 paratypes. – NSMT-P 5041, 2 paratypes. – USNM 348991, 2 paratypes.

Synchiropus signipinnis Fricke, 2000: FRICKE 2000a: 43–45, fig. 21 ("East Coral Sea, Chesterfield Islands, 19°43′48″S 158°35′15″E, 348 m depth").

Valid (according to FRICKE 2002a: 66).

Paratype: **SMNS 21271**, 1 ♀, 68.6 mm SL; East Coral Sea, Chesterfield Islands, 19°43′48″S 158°35′15″E, 348 m depth; RICHER DE FORGES, B. & R/V 'Coriolis', Cruise CHALCAL, St. CP.8; 19 July 1984.

Remarks: Additional type material: MNHN 1999-1252, holotype.

Caracanthidae

Amphiprionichthys apistus Bleeker, 1855: BLEEKER 1855b: 173 ["Cocos Is., in mari; 2 specimens; 36 and 41 ''' (TL)"].

= *Caracanthus unipinna* (Gray, 1831) (according to BEAUFORT & BRIGGS 1962: 169).

Syntype: **SMNS 10577** (old catalogue number: SMNS 760 qt), 1 specimen, 30.5 mm SL, 35.8+ mm TL; "Cocos Is."/Cocos Keeling Islands, E Indian Ocean; (ROSS) BLEEKER, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: RMNH 5893, 1 specimen, perhaps syntype of *Amphiprionichthys apistus*; locality not stated; BLEEKER, P.; 1879.

Carangidae

Carangoides gallichthys Bleeker, 1852: BLEEKER 1852b: 68–70 ["Batavia, Samarang, ..., in mari; 41 specimens; 61–530 ''' (TL)"].

Caranx gallus (Bloch, 1786): GÜNTHER 1860a: 455.

= *Alectis indicus* (Rüppell, 1828) (according to WEBER & BEAUFORT 1931: 271, as *Alectis indica*).

Paralectotype: **SMNS 10578** (old catalogue number: SMNS 817 cm), 1 specimen, ca. 183 mm SL, ca. 226 mm TL; "Indischer Archipel"/Indonesia; BLEEKER, P.; cat. entry date: 1861.

Remarks: Additional BLEEKER material: NMV A888, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 6118, 24 specimens, including paralectotypes of *Carangoides gallichthys*; locality not stated; BLEEKER, P.; 1879. – RMNH 26962, 1 specimen, lectotype of *Carangoides gallichthys*; locality not stated; BLEEKER, P.; 1879.

Lectotype designation not researched.

Selar brevis Bleeker, 1851: Bleeker 1851c: 361. Bleeker 1852b: 54 ("Java").
Selar para (Cuvier in Cuvier & Valenciennes, 1833): Bleeker 1852b: 56.
= *Alepes djedaba* (Forsskål, 1775) (according to Eschmeyer in Froese & Pauly 2004).
Syntype: **SMNS 10579** (old catalogue number: SMNS 760 da), 1 specimen, 97.3 mm SL, 116.7 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: RMNH 6095, 1 specimen, 124.1 mm SL, 156.3 mm TL, syntype of *Selar brevis*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879.

Selar hasseltii Bleeker, 1851: Bleeker 1851c: 359. Bleeker 1852b: 53 ["Batavia, Cheribon, Surabaja; Java; in mari; 7 specimens; 150–270 ''' (TL)"].
= *Atule mate* (Cuvier in Cuvier & Valenciennes, 1833) (according to Weber & Beaufort 1931: 207, as *Caranx mate*).
Paralectotype: **SMNS 10580** (old catalogue number: SMNS 760 dp), 1 specimen, 132.2 mm SL, 150.6 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: NMV A2074, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 6078, 2 paralectotypes of *Selar hasseltii*; locality not stated; Bleeker, P.; 1879. – RMNH 8338, 17 specimens, no types; locality not stated; Bleeker, P.; 1879. – RMNH 8344, 1 paralectotype of *Selar hasseltii*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879. – RMNH 8345, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 26967, 1 lectotype of *Selar hasseltii*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879.
Lectotype designation not researched.

Selar kuhlii Bleeker, 1851: Bleeker 1851c: 360. Bleeker 1852b: 54 ("Java").
Caranx xanthurus (non Cuvier in Cuvier & Valenciennes, 1833): Bleeker 1850a: 8 ("Java"). Bleeker 1865: 174.
= *Alepes vari* (Cuvier in Cuvier & Valenciennes, 1833) (according to Eschmeyer in Froese & Pauly 2004).
Syntypes: **SMNS 10581** (old catalogue number: SMNS 760 oi), 4 specimens: specimen 1, 148.2 mm SL, 171.7 mm TL; specimen 2, 100.4 mm SL, 119.0 mm TL; specimen 3, 86.4 mm SL, 105.0 mm TL; specimen 4, 83.2 mm SL, 98.1 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: NMV A916, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 8377, 6 syntypes of *Selar kuhlii*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879. – RMNH 8378, 18 specimens, no types; locality not stated; Bleeker, P.; 1879.

Selar malam Bleeker, 1851: Bleeker 1851c: 362. Bleeker 1852b: 55–56 ["Batavia, in mari; 15 specimens; 115–200 ''' (TL)"].
= *Alepes melanoptera* (Swainson, 1839) (according to Smith-Vaniz 1999: 2689).
Syntype: **SMNS 10582** (old catalogue number: SMNS 817 cc), 1 specimen, 118.1 mm SL, 142.5 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: BMNH 1880.4.21.125–126, 2 specimens, 144–150 mm SL, 163–172 mm TL; locality not stated; Bleeker, P.; 1879. – RMNH 8386, 20 specimens, syntypes of *Selar malam* included; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879. – RMNH 8387, 16 specimens, no types; locality not stated; Bleeker, P.; 1879.

Carcharhinidae

Carcharias (Scoliodon) crenidens Klunzinger, 1880: Klunzinger 1880: 426–427 ("Queensland; 1 specimen; 60 cm").
= *Rhizoprionodon acutus* (Rüppell, 1837) (according to Paxton et al. 1989: 83).
Holotype: **SMNS 2449**, 565 mm TL; Australia, Queensland, Endeavour Strait, 10°50′S 142°15′E; Müller, F. von; cat. entry date: Aug. 1878.
Remarks: Additional Müller material: SMNS 3362, 2 specimens, no types; Australia; 1891.

Carcharias ehrenbergi Klunzinger, 1871: KLUNZINGER 1871: 661 ("1,45 m und mehr; im offenen Meere").
= *Carcharhinus limbatus* (Müller & Henle, 1839) (identified by J. A. F. GARRICK, Apr. 1968) (according to DOR 1984: 6; COMPAGNO 1984: 481).
Syntypes: **SMNS 12137**, 1 skull; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06'N 34°17'E; KLUNZINGER, C. B.; cat. entry date: Jan. 1869. – **SMNS 12259** (old catalogue number: SMNS 1642 1/2), 37 teeth; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06'N 34°17'E; KLUNZINGER, C. B.; cat. entry date: Jan. 1869.
Remarks: SMNS 12259 was originally a complete dry specimen; only the teeth of the specimen were found during a type search in July 1991. The rest of the specimen is lost.
Additional type material: ZMB 4470 and 4472, 2 syntypes.

Galeocerdo obtusus Klunzinger, 1871: KLUNZINGER 1871: 664 ("Das Exemplar misst 3 m, jetzt im Museum Stuttgart").
= *Galeocerdo cuvier* (Péron & LeSueur, 1822) (according to DOR 1984: 8; COMPAGNO 1984: 503).
Holotype: **SMNS 12141** (old inventory number: SMNS 1706), 1 dry head skeleton; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06'N 34°17'E; KLUNZINGER, C. B.; cat. entry date: 1869.

Chaetodontidae

Chaetodon oligacanthus Bleeker, 1845: BLEEKER 1845: 520 ("Java").
Valid (according to SMITH et al. 2003: 304).
Syntypes: **SMNS 10583** (old catalogue number: SMNS 760 fo), 6 specimens: specimen 1, 66.6 mm SL, 80.8 mm TL; specimen 2, 62.2 mm SL, 76.4 mm TL; specimen 3, 60.9 mm SL, 73.2 mm TL; specimen 4, 49.5 mm SL, 57.4 mm TL; specimen 5, 39.2 mm SL, 49.2 mm TL; specimen 6, 31.5 mm SL, 37.9 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: BMNH 1880.4.21.111–112, 2 specimens, no types; locality not stated; BLEEKER, P.; 1879 [not found during a type search in 1989]. – RMNH 5775, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 14412, 10 specimens, no types; locality not stated; BLEEKER, P.; 1879. – RMNH 14413, 7 syntypes of *Chaetodon oligacanthus*; "Batavia, Java"/Jakarta, Java, Indonesia; BLEEKER, P.; 1879.

Chelmo mülleri Klunzinger, 1880: KLUNZINGER 1880: 361 ("Australien").
= *Chelmon muelleri* Klunzinger, 1880 (according to STEENE 1977: 57).
Syntypes: **SMNS 2477**, 3 specimens, 92.8 mm, 95.3 mm and 95.9 mm SL – 108.8 mm, 111.6 mm and 114.4 mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28'S 130°50'E; MÜLLER, F. VON; cat. entry date: Aug. 1878. – **SMNS 2613**, 2 specimens, 77.5 mm and 91.3 mm SL, 93.5 mm and 107.9 mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28'S 130°50'E; MÜLLER, F. VON; cat. entry date: Mar. 1879.

Channidae

Ophiocephalus africanus Steindachner, 1879: STEINDACHNER 1879b: 15–16 ("Lagos, Mus. Stuttgart; 1 specimen; 18 cm TL").
= *Parachanna africana* (Steindachner, 1879) (according to TEUGELS, BREINE & THYS VAN DEN AUDENAERDE in DAGET et al. 1986: 288).
Holotype: **SMNS 1491**, 148.4 mm SL, 179.50 mm TL; Nigeria, Lagos, 6°27'N 3°24'E; MANN, A.; cat. entry date: Mar. 1868.
Remarks: Two additional specimens out of SMNS 1491, now registered as SMNS 12824, cannot be considered as types, as STEINDACHNER only mentioned the 18 cm TL specimen as the type of the species.

Characidae

Brycon dentex Günther, 1860: GÜNTHER 1860b: 240 ("Esmeraldas, Ecuador").
Valid (according to HOWES 1982: 21).

Syntype: **SMNS 762**, 1 specimen, 158.0 mm SL, 181.9 mm TL; Ecuador, Esmeraldas, 0°59′N 79°42′W; Fraser; cat. entry date: May 1860.
Remarks: Additional type material: BMNH 1860.6.15.156–159, 4 syntypes.

Brycon reinhardti Lütken, 1875: Lütken 1875: 134–135 ("Hab. in flumine Rio das Velhas").
= *Brycon nattereri* Günther, 1864 (according to Lima in Reis et al. 2003: 177).
Syntype: **SMNS 2049**, 1 specimen, 129 mm SL, 159 mm TL; Brazil, State Minas Gerais, Rio das Velhas, approx. 17°13′S 44°49′E; Lütken, C. F.; cat. entry date: Jan. 1876.
Remarks: Additional type material: BMNH 1876.1.10.36, 1 syntype. – MNHN 9589, 1 syntype. – NMW 59761, 2 syntypes. – USNM 44955, 1 syntype. – ZMB 9194, 1 syntype. – ZMUC 216, 222, 224–225, 4 syntypes.

Serrasalmo brandtii Reinhardt in Lütken, 1875: Reinhardt in Lütken 1875: 137 ("Hab. in lacu Lagoa Santa qui dicitur, nec non in rivulis vicinis").
= *Serrasalmus brandtii* Reinhardt in Lütken, 1875 (according to Géry 1977: 286).
Syntypes: **SMNS 2043**, 2 specimens, 66.2 mm and 86.0 mm SL, 76.3 mm and 102.1 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; inv. date: Jan. 1876.
Remarks: Additional type material: NMW 57008, 2 syntypes. – USNM 44964, 1 syntype. – ZMB 9195, 2 syntypes. – ZMUC 268–269, 273, 276a, 278–280, 290, 295, 297, 10 syntypes.

Tetragonopterus caucanus Steindachner, 1880: Steindachner 1880: 189 ("Cauca").
= *Astyanax caucanus* (Steindachner, 1878) (according to Buckup in Reis et al. 2003: 108).
Syntypes: **SMNS 2833**, 2 specimens, 62.9 mm and 63.1 mm SL, 76.7+ mm and 78.9 mm TL; Colombia, Río Cauca, at Cáceres, 7°35′N 75°20′W; Steindachner, F; cat. entry date: June 1880.
Remarks: Additional type material: NMW 57372 to 57376, 11 syntypes. – ZMUC 993, 1 syntype.

Tetragonopterus gracilis Reinhardt in Lütken, 1875: Reinhardt in Lütken 1875: 133 ("Hab. in lacu Lagoa Santa dicto").
= *Hemigrammus gracilis* (Reinhardt in Lütken, 1875) (according to Géry 1977: 459; Lima & Oyakawa in Reis et al. 2003: 131).
Syntypes: **SMNS 2047**, 4 specimens, 21.2 mm, 24.9 mm, 27.1 mm and 28.0 mm SL – 25.4 mm, 29.7 mm, 33.6 mm and 34.9 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.
Remarks: Additional type material: MNHN 9583, 4 syntypes. – NMW 68066, 5 syntypes. – ZMB 9201, 1 syntype. – ZMUC 522–529, 539, 650–651, 661–662, 13 syntypes.

Tetragonopterus lacustris Lütken, 1875: Lütken 1875: 131–132 ("Hab. in lacu Lagoa Santa dicto nec non in rivulis nonnullis vicinis").
= *Astyanax bimaculatus lacustris* (Lütken, 1875) (according to Nielsen 1974: 46).
Syntypes: **SMNS 2045**, 2 specimens, 74.0 mm and 100.0 mm SL, 93.2 mm and 122.4 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.
Remarks: Additional type material: MNHN 9580, 3 syntypes. – NMW 57540, 1 syntype. – ZMB 9200, 2 syntypes. – ZMUC uncat., 25 syntypes.

Tetragonopterus nanus Reinhardt in Lütken, 1875: Reinhardt in Lütken 1875: 133–134 ("Hab. in lacu Lagoa Santa, nec non in rivulis nonnullis vicinis").
= *Hasemania nana* (Reinhardt in Lütken, 1875) (according to Géry 1977: 518).
Syntypes: SMNS 2048, 5 specimens; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876 [not found; probably lost].
Remarks: Additional type material: MNHN 9584, 5 syntypes. – USNM 44958, 4 syntypes. – ZMB 9202, 5 syntypes. – ZMUC 664–678, 900–916, 32 syntypes.

Tetragonopterus rivularis Lütken, 1875: Lütken 1875: 132 ("Hab. in flumine Rio das Velhas cum affluentibus").
= *Astyanax rivularis* (Lütken, 1875) (according to Buckup in Reis et al. 2003: 112).
Syntypes: **SMNS 2046**, 3 specimens, 35.4 mm, 38.9 mm and 42.3 mm SL – 44.1 mm, 47.0 mm and 52.4 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.
Remarks: Additional type material: MNHN 9582, 4 syntypes. – NMW 57707, 5 syntypes. – ZMB 9199, 4 syntypes. – ZMUC uncat., 49 syntypes.

Cheilodactylidae

Chilodactylus asper Klunzinger, 1872: Klunzinger 1872: 24–26 ("Südaustralien; 40 cm").
Chilodactylus spectabilis Hutton, 1872: Klunzinger 1880: 364–365.
= *Cheilodactylus spectabilis* Hutton, 1872 (according to McCulloch 1929: 258; Last et al. 1983: 395).
Holotype: **SMNS 1655**, ca. 330 mm SL, ca. 415 mm TL; "Neuholland"/Port Philip, Victoria, Australia, 38°16′S 144°40′E; Müller, F. von; cat. entry date: May 1869.

Chilodactylus nebulosus Klunzinger, 1872: Klunzinger 1872: 26–27 ("Queens Cliff; 16 cm"). Klunzinger 1880: 364.
= *Dactylophora nigricans* (Richardson, 1850) (according to Allen & Heemstra 1976: 312).
Holotype: **SMNS 1595**, 133.9 mm SL, 161.0 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; Müller, F. von; inv. date: Oct. 1868.
Remarks: Additional Müller material: SMNS 2339, 1 specimen, no type; Australia, Victoria, Port Philip; Müller, F. von; 1877.

Cichlidae

Chromis magdalenae Lortet, 1878: Lortet 1878: 146–147 ("Lac de Huleh et lac de Tibériade; Damascus").
= *Tristamella simonis* (Günther, 1864) (according to Krupp & Schneider 1989: 403).
Syntype: SMNS 3187, 1 specimen; Syria, Bahret el Hidjane, Damascus, 33°30′N 36°18′E; Lortet, L.; cat. entry date: 1884 [not found; probably lost].
Remarks: Additional type material: BMNH 1898.12.5.1–4, 4 syntypes. – MCZ 25533, 1 syntype. – MHNG 611.21, 2 syntypes. – MNHN 1883-1139, 1 syntype. – SMF 187, 1 syntype. – USNM 48023, 1 syntype.

Chromis tiberiadis Lortet, 1878: Lortet 1878: 135–137, pl. 6 ("Lac Houlèh et lac de Tibériade").
= *Sarotherodon galilaeus* (Linnaeus, 1758) (according to Krupp & Schneider 1989: 389).
Paralectotype: **SMNS 3188**, 1 specimen, 197 mm SL, 240 mm TL; Israel, Lake Tiberias (Sea of Galilee, Lake Kinneret), N shore; Lortet, L.; cat. entry date: 1884.
Remarks: Additional type material: MGHN 3086, lectotype (as designated by Krupp & Schneider 1989: 398). – MCZ 25526, 1 paralectotype. – MGHN 3084 to 3086; 2, 3 and 3 paralectotypes. – BMN 1258, 1 paralectotype. – SMF 1318, 5413, 2 paralectotypes. – ZISP 6734, 1 paralectotype.

Petenia kraussii Steindachner, 1878: Steindachner 1878: 89 ("Cienaga, Río Magdalena, Kolumbien"). Steindachner 1879c: 28–31, pl. 2, fig. 1 ("Magdalenenstrom; 10–26 cm").
= *Caquetaia kraussii* (Steindachner, 1878) (according to Kullander in Reis et al. 2003: 619).
Syntype: **SMNS 2596**, 1 specimen, 149.0 mm SL, 192.4 mm TL; Colombia, Rio Magdalena; Steindachner, F.; cat. entry date: 1879.
Remarks: Additional type material: MSNG 13010, 1 syntype (ex NMW). – NMW 24543–53, 12 syntypes. – NMW 75391, 4 syntypes. – ZMUC 86, 1 syntype. – ZMUO J.2756 and J.2757, 2 syntypes.

Clinidae

Clinus marmoratus Klunzinger, 1872: Klunzinger 1872: 33–34 ("Port Philip; 15 cm"). Klunzinger 1880: 392.

= *Heteroclinus marmoratus* (Klunzinger, 1872) (according to GOMON et al. 1994: 759).
Syntypes: **SMNS 1798**, 2 specimens; Australia, Victoria, Port Philip, Queens Cliff, 38°16′S 144°40′E; MÜLLER, F. VON; inv. date: June 1871.
Remarks: According to ESCHMEYER in FROESE & PAULY 2004, name "objectively invalid [primary homonym], preoccupied by *Clinus marmoratus* Castelnau, 1861 and name should not be used or the ICZN should be petitioned".

Cristiceps tristis Klunzinger, 1872: KLUNZINGER 1872: 31–32 ("Murray River; 16 cm"). KLUNZINGER 1880: 392.
= *Heteroclinus tristis* (Klunzinger, 1872) (according to GOMON et al. 1994: 763).
Holotype: **SMNS 1689**, 133.1 mm SL, 151.8 mm TL; Australia, South Australia, Murray River; MÜLLER, F. VON; cat. entry date: Aug. 1869.

Clupeidae

Alausa kanagurta Bleeker, 1852: BLEEKER 1852f: 34 ["Batavia, Java, in mari; Muntok, Banka, in mari; 10 specimens; 160–210 ‴ (TL)"].
= *Hilsa kelee* (Cuvier, 1829) (according to WHITEHEAD 1985: 220).
Syntype: SMNS 24571 (old catalogue number: SMNS 760 gx), 1 specimen; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860 [not found; probably lost during World War II].
Remarks: Additional BLEEKER material: NMV 46003, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 7110, 4 specimens, 125–139 mm SL, 160–172 mm TL, syntypes of *Alausa kanagurta*; "Java"/Indonesia, "Sumatra"/Sumatera, Banka; BLEEKER, P.; 1879.

Clupea argyrotaeniata Bleeker, 1849: BLEEKER 1849a: 72 ("Makassar, Celebes").
= *Spratelloides gracilis* (Temminck & Schlegel, 1846) (according to WHITEHEAD 1985: 34).
Syntypes: **SMNS 10584** (old catalogue number: SMNS 817 a), 2 specimens: specimen 1, 66.6 mm SL, 83.6 mm TL; specimen 2, 64.2 mm SL, 78.0 mm TL; "Indischer Archipel"/Indonesia; BLEEKER, P.; cat. entry date: 1861.
Remarks: Additional BLEEKER material: AMS B.7960, 1 specimen. – BMNH 1867.11.28.47, 1 specimen; locality not stated; BLEEKER, P.; 1867 [not found during a visit to the BMNH in May 1989]. – NMV A936, 3 specimens, no types; locality not stated; BLEEKER, P.; 1879. – RMNH 24956, 14 specimens, 40–67 mm SL, 45–74 mm TL, probably syntypes of *Clupea argyrotaeniata*; locality not stated; BLEEKER, P.; 1879.

Clupea macrolepis Steindachner, 1879: STEINDACHNER 1879d: 31. STEINDACHNER 1879b: 13–14 ["Townsville, Clevelandsbay, Australien; (1 specimen; slightly above) 8 cm"].
= *Escualosa thoracata* (Valenciennes in Cuvier & Valencienes, 1847) (according to WHITEHEAD 1985: 119; PAXTON et al. 1989: 153).
Holotype: **SMNS 2292**, 65.1 mm SL, 77.4 mm TL; Australia, Queensland, Cleveland Bay, near Townsville, 19°16′S 146°48′E; MÜLLER, F. VON; cat. entry date: Apr. 1877.

Clupea mülleri Klunzinger, 1880: KLUNZINGER 1880: 416–417 ("Neuseeland; 10 cm").
= *Sprattus muelleri* (Klunzinger, 1880) (according to WHITEHEAD 1985: 47; PAULIN et al. 1989: 250).
Holotype: **SMNS 2590**, 92.6 mm SL, 97.6+ mm TL; NW coast of New Zealand; MÜLLER, F. VON; cat. entry date: Nov. 1878.

Clupea neopilchardus Steindachner, 1879: STEINDACHNER 1879d: 31. STEINDACHNER 1879b: 12–13 ("Hobsonsbay, Victoria; 1 specimen").
= *Sardinops neopilchardus* (Steindachner, 1879) (according to WHITEHEAD 1985: 59; PAXTON et al. 1989: 157).
Holotype: SMNS 2250; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; cat. entry date: Apr. 1877 [not found; probably lost].

Harengula moluccensis Bleeker, 1853: BLEEKER 1853b: 609–610 ("Ternate, Amboina").
= *Herklotsichthys quadrimaculatus* (Rüppell, 1837) (according to WHITEHEAD 1985: 81).

Paralectotype: **SMNS 10585** (old catalogue number: SMNS 760 nl), 1 specimen, 62.1 mm SL, 73.3 mm TL; "Celebes"/Sulawesi, Indonesia; BLEEKER, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: BMNH 1867.11.28.27, 1 specimen, 112.2 mm SL, 132 mm TL; locality not stated; BLEEKER, P.; 1879. – NMV A939, 3 specimens, no types; locality not stated; BLEEKER, P.; 1879. – RMNH 7098, lectotype of *Harengula moluccensis*; "Amboina"/Ambon, Maluku, Indonesia; BLEEKER, P.; 1879 [not found during a type search in September 1990].

Source of lectotype designation could not be detected.

Cobitidae

Cobitis hymenophysa Bleeker, 1852: BLEEKER 1852a: 602 ("Palembang, Sumatra").

Hymenophysa macclellandi Bleeker, 1859: BLEEKER 1858–1859: 358 (replacement name for *Cobitis hymenophysa* Bleeker, 1852).

= *Syncrossus hymenophysa* (Bleeker, 1852) (according to KOTTELAT 2004: 14).

Syntypes: **SMNS 10601** (old catalogue number: SMNS 817 ae), 2 specimens: specimen 1, 79.4 mm SL, 99.4 mm TL; specimen 2, 79.0 mm SL, 99.0 mm TL; "Indischer Archipel"/Sumatera, Indonesia; BLEEKER, P.; cat. entry date: 1861.

Remarks: Additional BLEEKER material: BMNH 1866.5.2.72, 1 specimen. – RMNH 9102, 12 specimens (ex 7059).

According to ESCHMEYER in FROESE & PAULY (2004), *Hymenophysa macclellandi* Bleeker, 1858–1859 is an "unneeded substitute name for *Cobitis hymenophysa* Bleeker, 1852".

Cobitis macracanthus Bleeker, 1852: BLEEKER 1852a: 603–604 ["Sumatra; 3 specimens; 60–132 ''' (TL)"].

= *Botia macracantha* (Bleeker, 1852) (according to WEBER & BEAUFORT 1916: 23).

Paralectotype: **SMNS 10600** (old catalogue number: SMNS 760 ba), 1 specimen, 52.2 mm SL, 67.0 mm TL; "Sumatra"/Sumatera, Indonesia; BLEEKER, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: BMNH 1866.5.2.72, 1 specimen, ca. 170 mm SL, ca. 203 mm TL; "Sumatra"?; BLEEKER, P. 1866. – MNHN 5708, 1 specimen; "Sumatra"/Sumatera, Indonesia; BLEEKER, P. – NMV A2062, 3 specimens, no types; locality not stated; BLEEKER, P.; 1879. – RMNH 7058, lectotype (as designated by ALFRED 1961: 34), 98.1 mm SL, 131.7 mm TL; "Sumatra, Kuantas River"/Sumatera, Indonesia; SCHWANENFELD, H. W.; 1851. – RMNH 9111, 1 specimen, 43.3 mm SL, 54.7 mm TL, no type [too small]; "Sumatra"/Sumatera, Indonesia; BLEEKER, P.; 1879.

Coregonidae

Coregonus macrophthalmus Nüsslin, 1882: NÜSSLIN 1882: 164, figs. 1–2 ("Untersee, Bodensee").

Valid (according to KOTTELAT 1997: 112).

Syntypes: **SMNS 3123**, 3 specimens; Switzerland, Lake Constance, at Ermatingen, Untersee, 47°41′N 09°06′E; NÜSSLIN, O.; cat. entry date: May 1882.

Remarks: Additional type material: NMW 75065, 1 syntype.

Coregonus sulzeri Nüsslin, 1882: NÜSSLIN 1882: 253, figs. 5–6 ("Pfäffikon-See").

= *Coregonus zuerichensis* Nüsslin, 1882 (according to KOTTELAT 1997: 111).

Syntypes: **SMNS 3125**, 3 specimens; Switzerland, Pfäffiker See, Zürich, 47°21′N 8°48′E; NÜSSLIN, O.; cat. entry date: May 1882.

Remarks: Additional type material: NMW 78751, 1 syntype.

Curimatidae

Curimata vari Gaye-Siessegger & Fricke, 1998: GAYE-SIESSEGGER & FRICKE 1998: 3, fig. 1 ("Rio Cubatão, 2 km above national hwy bridge, 27°41′30″S, 48°40′50″W, Santa Catarina, Brazil").

= *Cyphocharax santacatarinae* (Fernández-Yépez, 1948) (according to VARI in REIS et al. 2003: 56).

Paratype: **SMNS 19170**, 1 specimen; Brazil, Santa Catarina, Rio Cubatão, 2 km above national highway bridge, 27°41′30″S, 48°40′50″W; 14 Mar. 1993.
Remarks: Additional type material: MCP 22105, holotype (ex SMNS 17508). – USNM 345527, 1 paratype.

Curimatus albula Lütken, 1875: Lütken 1875: 127–128 ("Hab. in flumine Rio das Velhas, Lagoa Santa").
= *Cyphocharax gilberti* (Quoy & Gaimard, 1824) (according to Vari in Reis et al. 2003: 55).
Paralectotypes: **SMNS 2038**, 2 specimens (only heads and tails); Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.
Remarks: Additional type material: ZMUC 52, lectotype (as designated by Vari 1992: 91). – BMNH 1876.1.10.24, 1876.1.10.70–71, 3 paralectotypes. – MNHN 9588, 2 paralectotypes (ex ZMUC). – NMW 62691, 1 paralectotype. – ZMB 9187, 2 paralectotypes. – ZMUC 51, 56–57, 59, 67–69, 7 paralectotypes.

Cynoglossidae

Plagusia macrolepidota Bleeker, 1851: Bleeker 1851f: 415–416 ("Batavia, Java").
= *Cynoglossus arel* (Bloch & Schneider, 1801) (according to Dor 1984: 271).
Paralectotype: **SMNS 10586** (old catalogue number: SMNS 817 t), 1 specimen, 228.8 mm SL, 239.0 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: NMV 46054, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 6785, lectotype of *Plagusia macrolepidota* (as designated by Menon 1977: 60); locality not stated; Bleeker, P.; 1879. – RMNH 26209, 5 specimens, paralectotypes of *Plagusia macrolepidota* included; locality not stated; Bleeker, P.; 1879.

Plagusia marmorata Bleeker, 1851: Bleeker 1851f: 411 ["Batavia, Java; 15 specimens; 95–220 ‴ (TL)"].
= *Paraplagusia bilineata* (Bloch, 1784) (according to Weber & Beaufort 1929: 183; Dor 1984: 273).
Syntypes: **SMNS 10587** (old catalogue number: SMNS 760 nf), 2 specimens: specimen 1, 116.6 mm SL, 125.1 mm TL; specimen 2, 91.7 mm SL, 99.1 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: NMV 46253, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 8501, 11 syntypes of *Plagusia marmorata*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879. – RMNH 8502, 12 specimens, no types; locality not stated; Bleeker, P.; 1879.

Symphurus insularis Munroe, Brito & Hernández, 2000: Munroe et al. 2000: 492, figs. 1–4 ("Punta de Tifirabe, El Hierro, Canary Islands"; also Madeira).
Valid (according to Eschmeyer in Froese & Pauly 2004).
Paratypes: **SMNS 12336**, 4 specimens; Portugal, Madeira Island, Ponta da Oliveira, Canico do Baixo, off Hotel Galomar, 32°38′N 16°54′W, soft sand and mud, 12 m depth; Wirtz, P.; Oct. 1991.
Remarks: Additional type material: TFMC VP000487, holotype. – AMNH 210760, 210825, 210865; 6, 2 and 12 paratypes. – MCM 725, 1 paratype. – MMF 22999, 1 paratype. – TFMC VP000406–409, 5 paratypes. – USNM 352409 and 357413, 6 and 1 paratypes.

Cyprinidae

Alburnus formosus Putnam, 1863: Putnam 1863: 9 ("Mobile, Alabama").
= *Pteronotropis hypselopterus* (Günther, 1868) (according to Gilbert 1998: 82).
Paralectotypes: **SMNS 1167**, 3 specimens, 33.4 mm, 34.3 mm and 39.4 mm SL – 36.8+ mm, 39.7+ mm and 45.2+ mm TL; U.S.A., Alabama, Mobile, 30°42′N 88°05′W; Agassiz, A.; cat. entry date: Aug. 1864.
Remarks: Additional type material: UMMZ 162442 (ex UMMZ 87183), lectotype of *Al-*

burnus formosus. – MCZ 1845, 24 paralectotypes of *Alburnus formosus*. – UMMZ 86863, 1 specimen, possibly paralectotype. – UMMZ 87183, 6 paralectotypes of *Alburnus formosus*.

Lectotype designation not researched.

Alburnus lineolatus Agassiz in Putnam, 1863: Agassiz in Putnam 1863: 9 ("Osage River").
= *Notropis ludibundus* (Girard, 1856) (according to Gilbert 1998: 104).
Syntypes: SMNS 1161, 2 specimens; U.S.A., Missouri, Osage River; Agassiz, A.; cat. entry date: Aug. 1864 [note in old catalogue: "verschimmelt, unbrauchbar. VII 1958" (discarded in July 1958)].
Remarks: According to Eschmeyer in Froese & Pauly (2004), *Alburnus lineolatus* Agassiz in Putnam, 1863 has to be treated as a synonym of *Notropis stramineus* (Cope, 1865), in spite of its earlier description. *Leuciscus lineatus* Günther, 1868 (Günther 1868: 259) is regarded as a subsequent use and not a separate description. The name *stramineus* was conserved in Opinion 1991 of the ICZN in March 2002, and that name should be used as the valid name. The name *lineolatus* with author as Putnam was placed on the Official Index in Opinion 1991 (see Anonymous 2002).

Additional type material: BMNH 1867.4.12.15, 1 syntype (ex MCZ). – MCZ uncat., 1 syntype [missing]. – MCZ 153941, pharyngeal arches of syntype. – ZMB 5641, 1 specimen, possibly syntype.

Alburnus rubellus Agassiz, 1850: Agassiz 1850: 364–366, pl. 3, figs. 1–3 ("very common at the Sault St. Mary; specimens were also obtained from the Pic").
= *Notropis rubellus* (Agassiz, 1850) (according to McAllister 1990: 63; Gilbert 1998: 143).
Syntypes: **SMNS 1166**, 2 specimens, 44.6 mm and 49.7 mm SL, 52.8 mm and 57.1 mm TL; U.S.A., Lake Superior; Agassiz, L.; inv. date: Aug. 1864.
Remarks: Additional type material: MCZ 1749, 1 specimen, [described] syntype. – MCZ 91786, 4 syntypes (ex MCZ 1749a). – NMW 55722, 5 specimens, possibly syntypes. – UMMZ 87092, 2 specimens, possibly syntypes. – UMMZ 87100, 1 syntype (ex MCZ 1749a). – ZMB 5645, 1 specimen, possibly syntype.

Alburnus zonatus Agassiz in Putnam, 1863: Agassiz in Putnam 1863: 9 ("Osage River").
= *Luxilus zonatus* (Agassiz in Putnam, 1863) (according to Page & Burr 1991: 112).
Paralectotype: **SMNS 1165**, 1 specimen, 52.5 mm SL, 65.2 mm TL; U.S.A., Missouri, Osage River; Agassiz, A.; Aug. 1860.
Remarks: Additional type material: UMMZ 174594, lectotype (as designated by Gilbert 1964: 129). – MCZ 1914, 9 paralectotypes. – MCZ 153934, pharyngeal arches of paralectotype. – UMMZ 86915, 3 paralectotypes (ex MCZ 1914). – USNM 120243, 1 paralectotype (ex MCZ 1914).

Barbus fluviatilis alba Krauss, 1882: Krauss 1882: 346 ("Lomersheim, Enz; 45 cm Länge").
= *Barbus barbus* (Linnaeus, 1758) (according to Kottelat 1997: 47).
Holotype: **SMNS 14332**, 355 mm SL, 412 mm TL; Germany, Baden-Württemberg, Enz River, at Lomersheim; Schmidt; Aug. 1881.

Barbus fluviatilis aurata Veesenmayer, 1884: Veesenmayer 1884: 325–326 ("Donau bei Ehingen; 1 Ex.; 46 cm"). Objectively invalid, as a primary homonym of *Barbus fluviatilis aurata* Fatio, 1882.
= *Barbus barbus* (Linnaeus, 1758) (according to Kottelat 1997: 47).
Holotype: **SMNS 14331**, 399 mm SL, 461 mm TL; Germany, Danube River, at Rottenacker, 5 km SSW Ehingen, 48°14′N 9°41′30″E; Heilbronner, A.; Oct. 1883.

Barbus wadon Bleeker, 1850: Bleeker 1850a: 14–15 ("Surabaja, in flumin. Kalimas; Java").
= *Puntius bramoides* (Valenciennes in Cuvier & Valenciennes, 1842) (according to Weber & Beaufort 1916: 195).
Syntype: **SMNS 10588** (old catalogue number: SMNS 760 mm), 1 specimen, 108.2 mm SL, 139.5 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: RMNH 7502, several specimens, no types; locality not stated; BLEEKER, P.; 1879; *Puntius bramoides*.

Chanodichthys stenzii Popta, 1908: POPTA 1908: 243–246 ("Kiautschou; 1 specimen").
= *Parabramis pekinensis* (Basilewski, 1855) (according to NICHOLS 1943: 151).
Holotype: **SMNS 4313**, 207 mm SL, 244 mm TL; China, Prov. Shantung/Shandong, Kaiserkanal [Imperial Canal], near Kiautschou [Chiaohsien], 36°19′N 120°00′E; STENZ; coll. date: Aug. 1904.

Chondrostoma nasus macrolepidotus Krauss in Veesenmayer, 1884: KRAUSS in VEESENMAYER 1884: 325 (from description of KRAUSS 1879: 348–349; "Donau unter der Friedrichsau bei Ulm; Totallänge 35 cm").
= *Chondrostoma nasus* (Linnaeus, 1758).
Holotype: **SMNS 24586** (old catalogue number: "Württembergische Sammlung 428"), 1 specimen; Germany, Baden-Württemberg, Danube River, Ulm; KÄSBOHRER, M.; cat. entry date: 22 Jan. 1879.
Remarks: The holotype was not found by FRICKE (1995: 11); however, during a revision of SMNS material of *Chondrostoma nasus*, the specimen was re-discovered in the collection in March 2005. The original label was barely readable, but the specimen could be identified as the holotype of *Chondrostoma nasus macrolepidotus* Krauss in Veesenmayer, 1884.

Cyprinella rubripinna Garman, 1881: GARMAN 1881: 91 ("Lago del Muerte, near Parras, Coahuila, Mexico").
Notropis garmani Jordan, 1887: JORDAN 1887: 813. Substitute name for *Cyprinella rubripinna* which was considered preoccupied; see remarks below.
= *Notropis lutrensis* Jordan, 1887 (according to GILBERT 1978: 76).
Syntypes of *Cyprinella rubripinna* and *Notropis garmani*: **SMNS 3034**, 2 specimens, 44.0 mm and 55.3 mm SL, 54.6 mm and 68.8 mm TL; Mexico, Prov. Coahuila, Lago del Muerte, near Parras de la Fuente, 25°25′N 102°11′W; Museum of Comparative Zoology, Harvard College, Cambridge, Massachusetts; cat. entry date: 1881.
Remarks: According to ESCHMEYER in FROESE & PAULY (2004), *Cyprinella rubripinna* Garman, 1881 is considered subjectively invalid; secondarily preoccupied in *Notropis* by *Argyreus rubripinnis* Heckel, 1843 (HECKEL 1843: 1040); replaced by *Notropis garmani* Jordan, 1885. However, *Argyreus rubripinnis* Heckel, 1843 is now considered as a synonym of *Luxilus cornutus* (Mitchill, 1817) (according to GILBERT 1998: 144). The name *Cyprinella rubripinna* Garman, 1881 is therefore considered available here.

Gobio kessleri kessleri banaticus Banarescu, 1953: BANARESCU 1953: 300, 318, fig. 3 ("Romania, Timis R., between Albina and Urseni").
Gobio kessleri banaticus Banarescu, 1960: BANARESCU 1960: 121 (according to BANARESCU 1953; "Romania, Timis R., between Albina and Urseni").
= *Romanogobio kessleri* (Dybowski, 1862) (according to KOTTELAT 1997: 62, as *Gobio kesslerii*).
Paratypes: **SMNS 15255**, 5 specimens; Romania, Timis River, near Albina; BANARESCU, P.; 1943–1946.
Remarks: *Gobio kessleri kessleri banaticus* Banarescu, 1953 was originally described as a natio (infrasubspecific name) and is thus not available. It is, however, available as *Gobio kessleri banaticus* Banarescu, 1960, which is based on the same type specimens as BANARESCU's (1953) description.
Additional type material: MGAB 49913, holotype. – AMNH 20662, 5 paratypes. – ANSP 82475, 98971, 142262; 5, 20 and 12 paratypes. – BMNH 1957.12.9.243–257, 15 paratypes. – CAS 48117, 5 paratypes. – FMNH 63801 and 96016, 12 and 10 paratypes. – MSNG 37576, 2 paratypes. – SU 62182, 5 paratypes. – UMMZ 185008, 15 paratypes. – USNM 190203, 10 paratypes. – ZMH 6089, 1 paratype. – ZMUC P.26698–703, 6 paratypes.

Leuciscus squaliusculus Kessler, 1872: Kessler 1872: 61, tab. 10, fig. 24 ("Khodzhent, Yany-kurgan").
= *Petroleuciscus squaliusculus* (Kessler, 1872) (according to Bogutskaya 2002: 236).
Syntypes: SMNS 2389, 2 specimens; Tadzikistan, Syr-darja River, at Khozhent (Leninabad), 40°17′N 69°37′E; Museum St. Petersburg; cat. entry date: Jan. 1878 [not found in 1994; probably lost].
Remarks: Additional type material: ZISP 2074–2075, about 70 syntypes. – ZISP 2081, more than 6 syntypes.

Lobocheilos cobitis Bleeker, 1853: Bleeker 1853a: 523 ("Padang, Sumatra; Batavia, Java"). Bleeker 1858a: 26.
= *Crossochilus cobitis* (Bleeker, 1853) (according to Weber & Beaufort 1916: 234).
Syntype: **SMNS 10589** (old catalogue number: SMNS 817 aw), 1 specimen, 69.8 mm SL, 88.5 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: BMNH 1866.5.2.54, 1 specimen; Bleeker, P. – RMNH 7006, 1 specimen; Bleeker, P. – RMNH 10490, 27 specimens (ex RMNH 7006); Bleeker, P.

Notropis garmani Jordan, 1887: Jordan 1887: 813. Substitute name for *Cyprinella rubripinna* which was considered as preoccupied; see discussion above under *Cyprinella rubripinna*.

Phoxinellus libani Lortet, 1878: Lortet 1878: 164–165, pl. 11, fig. 4 ("Liban").
= *Pseudophoxinus libani* (Lortet, 1878).
Syntypes: SMNS 3214, several specimens; Lebanon, Yamuni Lake; Lortet, L.; cat. entry date: 1884 [not found; probably lost].
Remarks: Eschmeyer in Froese & Pauly (2004) refers to Lortet (1883) as the original description of *Phoxinellus libani*; however, according to our sources, a description was already published by Lortet (1878).
Additional type material: MCZ 25546, 28 syntypes. – MHNG 611.24, 10 syntypes. – SMF 804, 19 syntypes. – USNM 48012, 2 syntypes.

Rohita enneaporos Bleeker, 1852: Bleeker 1852a: 596–597 ("Padang, Sumatra").
= *Osteochilus enneaporos* (Bleeker, 1852) (according to Ng & Tan 1999: 353, as *Osteochilus enneaporus*).
Syntype: **SMNS 10590** (old catalogue number: SMNS 817 aq), 1 specimen, 68.9 mm SL, 90.7 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: BMNH 1866.5.2.176, 1 specimen, no type; locality not stated; Bleeker, P.; 1866. – NMV 46273, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 23369, 1 specimen, no type; locality not stated; Bleeker, P.; 1879; *Rohita vittata*.

Rohita leiorhynchos Bleeker, 1850: Bleeker 1850a: 19–20 ["Surabaja, Java; 185 ‴ (TL)"].
= *Osteochilus hasseltii* (Valenciennes in Cuvier & Valenciennes, 1842) (according to Weber & Beaufort 1916: 135).
Syntypes: **SMNS 10591** (old catalogue number: SMNS 760 ky), 3 specimens: specimen 1, 122.9 mm SL, 152.3 mm TL; specimen 2, 115.7 mm SL, 132.4 mm TL; specimen 3, 98.5 mm SL, 120.9 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: BMNH 1866.5.2.165, 1 specimen, no type; locality not stated; Bleeker, P.; 1866. – NMV 46268–46270, 3 specimens, no types; locality not stated; Bleeker, P.; 1879. – RMNH 10854, 76 specimens, probably including some syntypes of *Rohita leiorhynchos* [some are larger than 185 mm TL]; locality not stated; Bleeker, P.; 1879.

Rohita polyporos Bleeker, 1853: Bleeker 1853a: 519–520 ["Sumatra; Batavia, Java; 3 specimens; 151–310 ‴ (TL)"].
= *Morulius chrysophekadion* (Bleeker, 1850) (according to Roberts 1989: 45).
Syntypes: **SMNS 10944** (old catalogue number: SMNS 760 cu), 2 specimens: specimen 1, 162.1 mm SL, 208.4 mm TL; specimen 2, 115.8 mm SL, 150.9 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.

Remarks: Additional Bleeker material: RMNH 6994, 1 specimen, no type of *Rohita polyporos* [lectotype of *Rohita chrysophekadion* Bleeker, 1850]; "Java"/Indonesia; Bleeker, P.; 1879. – RMNH 12320, 1 specimen (ex RMNH 6994); Bleeker, P.

Systomus apogonoïdes Bleeker, 1855: Bleeker 1855a: 410 ["Java; 36 specimens; 32–176 ‴ (TL)"].
= *Cyclocheilichthys apogon* (Valenciennes in Cuvier & Valenciennes, 1842) (according to Weber & Beaufort 1916: 156).
Syntypes: **SMNS 10593** (old catalogue number: SMNS 760 ghod), 3 specimens: specimen 1, 90.2 mm SL, 110.3 mm TL; specimen 2, 83.7 mm SL, 104.2 mm TL; specimen 3, 68.3 mm SL, 87.2 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: BMNH 1866.5.2.144, 1 specimen, no type; Bleeker, P. – MNHN 3845, 2 specimens, no types; Bleeker, P. – NMV 46096, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 10837, 16 syntypes of *Systomus apogonoides*; "Java"/Indonesia; Bleeker, P.; 1879. – RMNH 10851, 33 specimens, no types; locality not stated; Bleeker, P.; 1879.

Systomus lawak Bleeker, 1855: Bleeker 1855a: 411 ("Rijiliwong R.; Kalimas R., Surabaja").
= *Kalimantania lawak* (Bleeker, 1855) (according to Roberts 1989: 40).
Syntype: SMNS 24572, 1 specimen; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860 [not found; probably lost].
Remarks: Additional type material: BMNH 1866.5.2.203, 1 syntype.

Xenocypris lampertii Popta, 1908: Popta 1908: 246–250 ("Kiautschou; 1 specimen").
= *Xenocypris argentea* (Basilewski, 1855) (according to Bogutskaya & Naseka 1996: 28).
Holotype: **SMNS 4319**, 102.5 mm SL, 120.2 mm TL; China, Prov. Shantung/Shandong, Kaiserkanal (Imperial Canal), near Kiautschou (Chiaohsien), 36°19′N 120°00′E; Stenz; coll. date: Aug. 1904.

Cyprinodontidae

Cyprinodon latifasciatus Garman, 1881: Garman 1881: 92 ("Mexico, Parras, Coahuila").
Valid (according to Meek 1904: 126).
Paralectotype: **SMNS 3035**, 1 specimen, 32.5 mm SL, 39.7 mm TL; Mexico, Province Coahuila, Parras; Agassiz, A.; cat. entry date: 1881.
Remarks: Additional type material: MCZ 37995, lectotype of *Cyprinodon latifasciatus* (ex MCZ 24884). – MCZ 24883, 2 paralectotypes. – MCZ 24884, now 9 paralectotypes. – MCZ 37995, 1 paralectotype. – UMMZ 163091, 2 paralectotypes (ex MCZ 24884). – USNM 120254, 4 paralectotypes (ex MCZ 24884). – USNM 163091, 2 paralectotypes (ex MCZ 24884).
The species is now extinct (Lazara 2001: 86).
Lectotype designation not researched.

Dasyatidae

Trygon macrurus Bleeker, 1852: Bleeker 1852e: 74–75 ["Batavia, Samarang, in mari; et Padang, Sumatrae occidentalis, in mari; latitudo 6 speciminum (3 mascul.); 180 ‴ ad 295 ‴ (TL)"].
= *Himantura gerrardi* (Gray, 1851) (according to Last & Compagno 1999: 1487).
Syntype: **SMNS 10594** (old catalogue number: SMNS 760 cf), 1 specimen, 181.0 mm length "tip of snout to spine", 579.5 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: BMNH 1867.11.28.171, 1 specimen, no type; locality not stated; Bleeker, P.; 1867. – NMV A949, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 8008, 2 syntypes of *Trygon macrurus*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879. – RMNH 8009, 5 specimens, 3 syntypes of *Trygon macrurus* from "Sumatra" might be included; locality not stated; Bleeker, P.; 1879.

Urogymnus rhombeus Klunzinger, 1871: Klunzinger 1871: 683–684 ("Scheibenlänge 57 cm, Schwanzlänge 1,26 m; selten; 2 Exemplare").
= *Urogymnus asperrimus* (Bloch & Schneider, 1801) (according to Compagno in Smith & Heemstra 1986: 141).
Syntype: SMNS 1630, 1 specimen; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: Jan. 1869 [not found; probably lost].
Remarks: Additional type material: ZMB 10864, 1 syntype of *Urogymnus rhombeus*; dry.

Dinolestidae

Dinolestes mülleri Klunzinger, 1872: Klunzinger 1872: 30, pl. 3 ("Hobson Bay; 38 cm"). Klunzinger 1880: 374.
= *Dinolestes lewini* (Griffith & Smith, 1834) (according to Scott et al. 1974: 205).
Holotype: **SMNS 1557**, 313 mm SL, 363 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; Müller, F. von; inv. date: Oct. 1868.
Remarks: Additional Müller material: SMNS 2543, 1 specimen, no type; Australia, Western Australia, King George Sound; 4 Nov. 1878. – SMNS 2625, 1 specimen, no type; Australia, Western Australia, King George Sound; Mar. 1879.

Draconettidae

Centrodraco oregonus lineatus Fricke, 1992: Fricke 1992a: 180–182, fig. 10 ("seamount 300 km SE of Sokotra Island, 10°18′07″N 56°07′31″E, 408–415 m depth").
Valid (according to Fricke 2002a: 70).
Paratype: **SMNS 12136**, 1 ♂, 119.8 mm SL; Western Indian Ocean, seamount 300 km SE of Sokotra Island, 10°18′07″N 56°07′31″E, 408–415 m depth; R/V 'Vitiaz'; 30 Oct. 1988.
Remarks: Additional type material: ZISP 49940, holotype. – ZMMU 18680, 1 paratype.

Centrodraco rubellus Fricke, Chave & Suzumoto in Fricke, 1992: Fricke, Chave & Suzumoto in Fricke 1992a: 185–187, fig. 11 ("Hawaiian Islands, and Indonesia, off SE Lombok, 8°58′S 116°34′E, 150–280 m").
Valid (according to Fricke 2002a: 71).
Paratype: **SMNS 8525**, 1 ♂, 98.2 mm SL; Indonesia, SE Lombok, 8°58′S 116°34′E, 150–280 m depth; Gloerfelt-Tarp, T.; 1982.
Remarks: Additional type material: BPBM 28915, holotype.

Eleotridae

Carassiops klunzingeri Ogilby, 1898: Ogilby 1898: 787 ("Murray River"). Based on *Eleotris cyprinoides* of Klunzinger 1880.
Eleotris cyprinoides (non Valenciennes in Cuvier & Valenciennes, 1837): Klunzinger 1880: 384–385, pl. 5, fig. 2 ("Murray River; 5 cm").
= *Hypseleotris klunzingeri* Ogilby, 1898 (according to Larson & Hoese in McDowall 1996: 215).
Syntypes: SMNS 14972 (old catalogue number: SMNS 1695 b), several specimens, number unknown; Australia, South Australia, Murray River; Müller, F. von; cat. entry date: Aug. 1869.
Remarks: The specimens in SMNS 14972 were illegally donated to AMS in 1976. Due to Australian type laws, it is not possible to return primary types. A partial return of paralectotypes is planned after lectotype designation (D. F. Hoese, personal communication, 1992). Specimens not found at AMS (Eschmeyer in Froese & Pauly 2004).

Eleotris africana Steindachner, 1880: Steindachner 1880: 153–154 ("1 specimen; 6 cm; Sierra Leone; Museum Stuttgart").
= *Bostrychus africanus* (Steindachner, 1880) (according to Miller & Wongrat in Quéro et al. 1990: 953).
Holotype: **SMNS 336**, 48.9 mm SL, 59.5 mm TL; Sierra Leone; Schmidt; cat. entry date: May 1853.

Eleotris heterura Steindachner, 1880: Steindachner 1880: 154–155 [(1 specimen), "7 cm, (locality unknown); Museum Stuttgart"].
= *Eleotris* sp., probably *Eleotris daganensis* Steindachner, 1870 (according to P. Miller, Bristol, personal communication, 1992).
Holotype: **SMNS 12823** (old catalogue number: SMNS 224 a), 57.1 mm SL, 68.6 mm TL; locality not stated; Barth, von; cat. entry date: Feb. 1852.

Eleotris kraussii Steindachner, 1880: Steindachner 1880: 191 (plate caption only).
= *Bostrychus africanus* (Steindachner, 1880) (according to P. Miller, personal communication, 1992; see remarks section below).
Holotype: **SMNS 1490**, 1 specimen, 105.4 mm SL, 128.0 mm TL; Nigeria, Lagos, 6°27′N 3°24′E; Mann, A.; cat. entry date: Mar. 1868.
Remarks: Steindachner (1880) apparently forgot to include a description of this species, but illustrated it on pl. 1, fig. 1–1a. The figure caption gives the name "*Eleotris kraussii* n. sp.", like the specimen label in the collection. The species name is available according to Art. 12.1 of the International Code of Zoological Nomenclature which says that a new scientific name published before 1931 must be accompanied by a description, a definition or an indication; Art 12.2.7 defines the proposal of a new species-group name in association with an illustration of the taxon being named as an indication.
According to P. Miller (personal communication, 1992), the holotype agrees exactly in its head lateral-line system and meristics with *Bostrychus africanus* (Steindachner, 1880), which was described under the name *Eleotris africana* in the same paper as *E. kraussii*. The names were introduced by Steindachner (1880) in the following sequence:
(1) *Eleotris africana* in the text, p. 153, with an adequate description,
(2) *Eleotris africana* in a list of species, p. 190,
(3) *Eleotris kraussii* in the legend for plate I (p. 191),
(4) *Eleotris africana* in the legend for plate III (p. 191).
As the first reviser of this nomenclatural problem, Fricke (1995: 13) selected the name *Eleotris africana* Steindachner, 1880 as the senior synonym of the two names, on the grounds of usage and page-priority. *Eleotris kraussii* is thus a junior synonym of *Eleotris africana*, now *Bostrychus africanus*.

Eleotris lembus Günther, 1861: Günther 1861: 121–122 ("Esmeraldas, Ecuador"). Unnecessary replacement name for *Lembus maculatus* Günther, 1859, see below.

Eleotris pseudacanthopomus Bleeker, 1853: Bleeker 1853c: 276–277 ["W Sumatra; 1 specimen; 86 ‴ (TL)"].
Valid (according to Miller 1998: 289; *Eleotris pseudacantha* on some pages).
Holotype: **SMNS 10595** (old catalogue number: SMNS 760 co), 70.3 mm SL, 86.1 mm TL; "Sumatra"/Sumatera, Indonesia; (Pfeiffer, I.) Bleeker, P.; cat. entry date: 1860.
Remarks: None of the *Eleotris fusca* specimens of the RMNH Bleeker collection (RMNH 5182) agrees in length with Bleeker's (1853c) description of *Eleotris pseudacanthopomus*, while the specimen SMNS 10595 perfectly agrees with Bleeker's description; therefore, this specimen can be considered to be the holotype of the species.

Eleotris reticulatus Klunzinger, 1880: Klunzinger 1880: 385, pl. 4, fig. 3 ("Port Darwin; 4 cm").
= *Hypseleotris compressa* (Krefft, 1864) (according to Larson & Williams 1997: 371).
Syntypes: SMNS 2515, 7 specimens; Australia, Northern Territory, Port Darwin/Darwin, 12°28′S 130°50′E; Müller, F. von; cat. entry date: Aug. 1878 [lost].
Remarks: A catalogue entry says "da verschimmelt, unbrauchbar; VII 1958/p." [discarded in July 1958].

Lembus maculatus Günther, 1859: Günther 1859: 505–506 ("Ecuador"). Günther 1860b: 236.
Eleotris lembus Günther, 1861: Günther 1861: 121–122 ("Esmeraldas, Ecuador"). Unnecessary replacement name for *Lembus maculatus* Günther, 1859.

= *Gobiomorus maculatus* (Günther, 1859) (according to KULLANDER in REIS et al. 2003: 660).

Syntype of *Lembus maculatus* and *Eleotris lembus*: **SMNS 761**, 1 specimen, 130.8 mm SL, 164.6 mm TL; Ecuador, Esmeraldas, 0°59′N 79°42′W; FRASER; cat. entry date: May 1860.

Remarks: Additional type material: BMNH 1860.6.16.131, 1 syntype.

ESCHMEYER in FROESE & PAULY (2004) gave BMNH 1860.6.16.131 as the holotype of both *Lembus maculatus* and *Eleotris lembus*; however, he was apparently not aware of the second specimen in the SMNS collection.

KULLANDER in REIS et al. (2003: 660) treated *Eleotris lembus* Günther, 1861 as a junior synonym of *Gobiomorus lateralis* (Gill, 1860); however, as it is a replacement name for *Lembus maculatus*, it must be included in the synonymy of *Gobiomorus maculatus*.

Engraulidae

Engraulis australis Steindachner, 1879: STEINDACHNER 1879d: 31 ("Hobsons Bay"). STEINDACHNER 1879b: 14–15 ("Hobsonsbay, Victoria, Australien; 2 specimens; 53–60 mm").

= *Engraulis australis* (White, 1790) (according to WHITEHEAD et al. 1988: 314; PAXTON et al. 1989: 160).

Syntypes: **SMNS 2254**, 3 specimens, 53.6 mm, 57.1 mm and 58.1 mm SL – 57.9+ mm, 61.6+ mm and 63.3+ mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; cat. entry date: Apr. 1877.

Remarks: *Engraulis australis* Steindachner, 1879 is a secondary homonym of *Atherina australis* White, 1790 (when placed in *Engraulis*), and junior synonym of that species.

Engraulis encrasicholoïdes Bleeker, 1852: BLEEKER 1852f: 37–38 ["Batavia, Surabaja, Kammal(/Java), in mari; 13 specimens; 86–120 ‴ (TL)"].

= *Thryssa encrasicholoides* (Bleeker, 1852) (according to WHITEHEAD et al. 1988: 430).

Syntype: **SMNS 12815** (ex ZIH 134), 1 specimen, 94.2 mm SL, 108.1 mm TL; "Indischer Archipel"/Indonesia; BLEEKER, P.; 1865.

Remarks: Additional BLEEKER material: AMS I.88, 1 specimen; BLEEKER, P. – BMNH 1867.11.28.50, 1 specimen; BLEEKER, P. – MNHN 3721, 2 specimens; BLEEKER, P. – NMV 46120–46121, 2 specimens; BLEEKER, P. – RMNH 3536, 1 specimen; BLEEKER, P. – RMNH 28791, 29 specimens; BLEEKER, P.

Engraulis russellii Bleeker, 1852: BLEEKER 1852f: 38 ["Batavia, Samarang, in mari; 30 specimens; 40–145 ‴ (TL)"].

= *Stolephorus indicus* (Hasselt, 1823) (according to WHITEHEAD et al. 1988: 412).

Syntype: **SMNS 12816** (ex ZIH 133), 1 specimen, 114.2 mm SL, 130.4 mm TL; "Indischer Archipel"/Indonesia; BLEEKER, P.; 1865.

Remarks: Additional BLEEKER material: BMNH 1867.11.28.57, 1 specimen; BLEEKER, P. – MNHN 3727–0028, 2 specimens; "Batavia, Java"/Jakarta, Java, Indonesia; BLEEKER, P. – RMNH 7076, 1 specimen; BLEEKER, P. – RMNH 23363, 32 specimens (ex RMNH 7076); BLEEKER, P.

Engraulis telaroides Bleeker, 1849: BLEEKER 1849b: 13 ["Madura, Sampang, Kanmal, Surabaja(/Java); (up to) 112 ‴ (TL)"].

= *Setipinna taty* (Valenciennes, 1848) (according to WHITEHEAD et al. 1988: 457).

Paralectotypes: **SMNS 10596** (old catalogue number: SMNS 760 fl), 5 specimens: specimen 1, 122.2 mm SL, 143.4 mm TL; specimen 2, 115.7 mm SL, 133.0 mm TL; specimen 3, 98.7 mm SL, 118.4 mm TL; specimen 4, 98.5 mm SL, 115.3+ mm TL; specimen 5, 79.1 mm SL, 91.7 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: BMNH 1867.11.28.59, 1 specimen, no type; locality not stated; BLEEKER, P.; 1866. – NMV 46626, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 7080, 1 specimen, 86.3 mm SL, 101.3 mm TL, lectotype of *Engraulis telaroides*; locality not stated; BLEEKER, P.; 1879. – RMNH 24964, 10 paralectotypes of *Engraulis telaroides*; locality not stated; BLEEKER, P.; 1879.

Lectotype designation not researched.

Etmopteridae

Etmopterus compagnoi Fricke & Koch, 1990: Fricke & Koch 1990: 1–9 ("Cape Town, South Africa").
Valid (according to Compagno 1999: 473).
Holotype: **SMNS 8999**, ♂, 327 mm TL; South Africa, off Cape Town, 34°41′S 18°37′E; Rau, R.; coll. date: 1965.
Paratypes: **SMNS 9000**, 3 ♀♀, 282–358 mm TL; same data as holotype.

Exocoetidae

Exocoetus gryllus Klunzinger, 1871: Klunzinger 1871: 586 ("14 cm, nicht größer; zeitweise häufig").
= *Parexocoetus mento* (Valenciennes in Cuvier & Valencienes, 1847) (according to Dor 1984: 61).
Syntypes: **SMNS 1769**, 3 specimens, 98.1 mm, 99.6 mm and 104.8 mm SL – 122.4+ mm, 125.2 mm and 127.7 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: May 1871.
Remarks: Additional type material: BMNH 1871.7.15.18 and 39, 2 syntypes. – MCZ 3741, 1 syntype. – SMF 6960, 1 syntype. – ZISP 2571, 2 syntypes [lost according to Eschmeyer in Froese & Pauly 2004]. – ZMB 8056, 2 syntypes.

Exocoetus oligolepis Bleeker, 1866: Bleeker 1866: 109–111 ["Java, Bali, Sumatra, Singapura, Celebes, Batjan, Amboina, Banda; in mari; 17 specimens; 160–258 ‴ (TL)"].
= *Cypselurus oligolepis* (Bleeker, 1866) (according to Weber & Beaufort 1922: 189, as *Cypsilurus oligolepis*).
Syntype: **SMNS 12817** (ex ZIH 305), 1 specimen, 135.3 mm SL, 160+ mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; 1865.
Remarks: Additional Bleeker material: AMS I.57, 1 specimen; Bleeker, P. – AMS I.58, 1 specimen; Bleeker, P. – BMNH 1866.5.2.31, 1 specimen; Bleeker, P.

Galaxiidae

Galaxias obtusus Klunzinger, 1872: Klunzinger 1872: 41 ("Yarra Sagoon; 12 cm").
Galaxias attenuatus (Jenyns, 1842): Klunzinger 1880: 412–413.
= *Galaxias maculatus* (Jenyns, 1842) (according to Paxton et al. 1989: 176–177).
Paralectotypes: SMNS 1599, 3 specimens; Australia, Victoria, Yarra River Lagoon, at Melbourne, 37°49′S 144°58′E; Müller, F. von; inv. date: Oct. 1868 [see Remarks].
Remarks: According to Baden-Württemberg law, the specimens of SMNS 1599 were illegally donated to AMS in 1976; primary types may not be returned to SMNS due to Australian type laws. The specimens are now catalogued under the following numbers: AMS I.30960-001 (ex AMS I.19743-003, ex SMNS 1599), lectotype of *Galaxias obtusus* (as designated by McDowall & Frankenberg 1981: 532); AMS I.19743-003 (ex SMNS 1599), 2 paralectotypes. At least the latter two specimens are expected to be returned to SMNS.

Galaxias rostratus Klunzinger, 1872: Klunzinger 1872: 41–42 ("Murray River; 13 cm"). Klunzinger 1880: 412.
Valid (according to Paxton et al. 1989: 178).
Paralectotypes: **SMNS 1597**, 1 specimen; Australia, South Australia, Murray River; Müller, F. von; cat. entry date: Oct. 1868. – **SMNS 1696**, 2 specimens; Australia, South Australia, Murray River; Müller, F. von; cat. entry date: Aug. 1869 [see Remarks].
Remarks: According to Baden-Württemberg law, the SMNS syntypes of *Galaxias rostratus* Klunzinger, 1872 were illegally donated to AMS in 1976; primary types may not be returned to SMNS due to Australian type laws. Specimens now catalogued under the following numbers: AMS I.19743-001, lectotype of *Galaxias rostratus* (as designated by McDowall & Frankenberg 1981: 549); AMS I.19743-002, 1 paralectotype; the remaining specimen apparently lost. At least the specimen AMS I.19743-002 is expected to be returned to SMNS.

Additional Müller material: SMNS 1928, 2 specimens, no types; Australia, South Australia, Murray River; Mülller, F. von; cat. entry date: Dec. 1873.

Gerreidae

Gerres abbreviatus Bleeker, 1850: Bleeker 1850d: 11 ["Batavia, Java; (up to) 240 ''' (TL)"].
= *Gerres erythrourus* (Bloch, 1791) (according to Iwatsuki et al. 1998: 165).
Paralectotypes: **SMNS 10597** (old catalogue number: SMNS 817 bq), 3 specimens: specimen 1, 131.5 mm SL, 155.7 mm TL; specimen 2, 72.8 mm SL, 90.7 mm TL; specimen 3, 69.3 mm SL, 89.1 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: BMNH 1880.4.21.192, 2 specimens: specimen 1, 150 mm SL, 172 mm TL; specimen 2, 144 mm SL, 163 mm TL; Bleeker, P. – NMV 46119, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – NMW 21524, 1 specimen; Bleeker, P. – RMNH 6682, lectotype of *Gerres abbreviatus* (as designated by Iwatsuki et al. 1998: 170). – RMNH 33099, 20 specimens, probably paralectotypes of *Gerres abbreviatus* included; locality not stated; Bleeker, P.; 1879.

Gerres rüppellii Klunzinger, 1884: Klunzinger 1884: 48, pl. 5, fig. 6.
= *Gerres longirostris* (Lacepède, 1801) (according to Iwatsuki et al. 2001: 955).
Syntypes: **SMNS 891**, 2 specimens, 127.0 and 171.5 mm SL, 158.2+ mm and 228.8 mm TL; "Massaua"/Mesewa, Eritrea, Red Sea, 15°38′N 39°28′E; Heuglin, T. von; Sep. 1861.

Parequula bicornis Steindachner, 1879: Steindachner 1879d: 30 ("Hobsons Bay"). Steindachner 1879b: 8–10 ("von dieser interessanten Art liegen mir zwei theilweise stark beschädigte Exemplare aus der Hobsonsbay ... und aus dem Murray-River in Australien vor").
= *Parequula melbournensis* (Castelnau, 1872) (according to McCulloch 1929: 216; Scott et al. 1974: 222–223).
Syntype: **SMNS 2236**, 1 specimen, 125.0 mm SL, 149.7 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; Müller, F. von; cat. entry date: Apr. 1877.
Remarks: Additional type material: NMW 90675, 1 syntype; Australia, South Australia, Murray River.
According to a label written by Steindachner, he first intended to name the new genus *Kraussia*, but changed the name in the original description to *Parequula*.

Gobiidae

Apocryptes (Gobiichthys) petersii Klunzinger, 1871: Klunzinger 1871: 480 ("11–18 cm; selten; auf der Klippe in Seegraswiesen").
= *Oxyurichthys petersii* (Klunzinger, 1871) (according to Bilecenoglu et al. 2002: 135).
Syntype: **SMNS 1753**, 1 specimen, 96.5 mm SL, 130.8 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: May 1871.

Eviota corneliae Fricke, 1998: Fricke 1998b: 2–4, fig. 1, tab. 1 ("New Caledonia, Loyalty Islands, Maré Island, Cap Wabao, 150 m NNE of cape, Baie de Tadin, 6 km SW Tadin, W coast of island, 21°35′45″S 167°60′06″E, surge channel and deep open reef pool, rich coral growth, low and rising tide, 2.8–3.8 m depth").
= *Trimmatom eviotops* (Schultz, 1943) (according to Gill & Jewett 2004: 239–240).
Holotype: **SMNS 19870**, 14.0 mm SL; New Caledonia, Loyalty Islands, Maré Island, Cap Wabao, 150 m NNE of cape, baie de Tadin, 6 km SW Tadin, W coast of island, 21°35′45″S 167°60′06″E, surge channel and deep open reef pool, rich coral growth, low and rising tide, 2.8–3.8 m depth; Fricke, R.; 12 Nov. 1997, 09:45–11:45 h.
Paratype: **SMNS 19895**, 1 specimen, 9.9 mm SL; same data as holotype.

Gobiosoma vulgare Klunzinger, 1871: Klunzinger 1871: 484 ("2,5–3 cm; sehr gemein, ... in *Stilophora*büschen und in Korallbrunnen mit solchen Büschen, nie am Ufer der Klippe").
= *Hetereleotris vulgaris* (Klunzinger, 1871) (according to Randall 1995: 338).
Syntypes: **SMNS 12138** (old catalogue number: SMNS 1312c), 6 specimens, 15.3 mm, 16.4 mm, 17.1 mm, 19.2 mm, 23.5 mm and 24.1 mm SL – 19.2 mm, 20.0+ mm, 20.2 mm, 23.1 mm, 28.6 mm and 19.2 mm TL; "Rothes Meer, Massaua"/Mesewa, Eritrea, Red Sea, 15°38′N 39°28′E; Heuglin, T. von; July 1865.

Remarks: The specimens of SMNS 12138 are syntypes of *Gobiosoma vulgare* (noted on the label of the specimen jar handwritten by KLUNZINGER).

Additional type material: MCZ 3815, 6 syntypes. – ZISP 2640 and 2644, 2 and 2 syntypes. – ZMB 8030 and 10502, 2 syntypes.

Gobius bucchichi Steindachner, 1870: STEINDACHNER 1870: 627–628, pl. 2, fig. 4 ("Exemplare von $1^2/_5$–$3^1/_2$ '' Länge, aus der Meeresbucht bei der Stadt Lesina").

Valid (according to MILLER in WHITEHEAD et al. 1986: 1037–1038).

Syntype: **SMNS 2701**, 1 specimen, 42.5 mm SL, 48.0 mm TL; Croatia, Adriatic Sea, Hvar Island, Lesina/Hvar City, 43°10′N 16°27′E; BUCCHICH, G.; 1870.

Remarks: Additional type material: NMW 28783 to 28790, 28791, 28792; 8, 2 and 1 syntypes. – MSNG 12665, 1 syntype. – ZMUO J.1127, 1 syntype.

Gobius kraussii Steindachner, 1880: STEINDACHNER 1880: 134–135 ("Surinam; 1 specimen; 5 cm SL").

= *Awaous flavus* (Valenciennes in Cuvier & Valenciennes, 1837) (according to WATSON & HORSTHEMKE 1995: 84).

Holotype: SMNS 1506; Surinam, mouth of Maroni River; KAPPLER, A.; 1868 [not found; probably lost].

Remarks: *Gobius kraussii* Steindachner, 1880 is now an absolute synonym of *Awaous flavus* (Valenciennes in Cuvier & Valenciennes, 1837) by neotype selection (of MNHN A.1334, which is also the holotype of *Gobius flavus* Valenciennes in Cuvier & Valenciennes, 1837) by WATSON & HORSTHEMKE (1995: 84). Number of neotype/holotype inconsistent in ESCHMEYER in FROESE & PAULY (2004) as A.1334 or A.1344, but stated in MNHN catalogue database (www.mnhn.fr/mnhn/iga/bases/gicim/collecti.html, 27 February 2005) as A.1334.

Gobius plumieri Bloch, 1786: BLOCH 1786: 154, pl. 178, fig. 3 ("Antillen").

= *Sicydium plumieri* (Bloch, 1786) (according to WATSON 2000: 14–17).

Neotype: **SMNS 11331**; Dominican Republic, Rio Seibo, 15 km NW El Seibo, 50 km NE San Pedro de Macoris, 18°53′N 69°07′W; SCHULZ, U. & TROSCHEL, H.-J., St. ST 90-19; 6 Mar. 1990.

Remarks: Neotype designation by WATSON (2000: 16).

Sicydium gilberti Watson, 2000: WATSON 2000: 11, figs. 6–8 ("Río Baonico, 20 m from mouth, 1.5 km northeast of La Cienaga, 15 km south Barahona, Dominican Republic").

Valid (according to KULLANDER in REIS et al. 2003: 662).

Holotype: **SMNS 17309**; Dominican Republic, Rio Baonico, 20 m from mouth into the sea, 1.5 km NE La Cienaga, 15 km S Barahona, 18°04′45″N 71°05′45″W; SCHULZ, U. & TROSCHEL, H. J., St. ST 90-31; 13 Mar. 1990.

Paratypes: **SMNS 17310**, 44 specimens; same data as holotype. – **SMNS 17311**, 2 specimens; Dominican Republic, Rio Nazaito, 300 m from mouth into the sea, 100 m N Paraiso, 25 km SSW Barahona, 18°00′00″N 71°10′30″W; SCHULZ, U. & TROSCHEL, H. J., St. ST 90-32; 13 Mar. 1990. – **SMNS 17312**, 3 specimens; Dominican Republic, Rio Nizao, 5 km from mouth into the sea, 4 km NNE Nizao, 32 km WSW Santo Domingo, 18°17′00″N 70°12′05″W; SCHULZ, U. & TROSCHEL, H. J., St. ST 90-45; 18 Mar. 1990.

Remarks: Additional type material: MHNG uncat., 1 paratype. – NTM S.13085-003, 2 paratypes. – UF 101797 to 101799; 1, 5 and 1 paratypes.

Gonostomatidae

Cyclothone livida Brauer, 1902: BRAUER 1902: 279–280 ("auf vielen Stationen im Atlantischen Ozean"). BRAUER 1908: pl. 6, fig. 5.

Valid (according to SCHAEFER, JOHNSON & BADCOCK in SMITH & HEEMSTRA 1986: 248).

Syntypes: **SMNS 4484**, 1 specimen, 25.0 mm SL, 29.0 mm TL; East Atlantic Ocean, Gulf of Guinea, LV 3000 m (= 1600 m depth); BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899); inv. date: 1899. – **SMNS 4494**, 1 specimen, 19.4 mm SL; East Atlantic Ocean, Gulf of Guinea; BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899); cat. entry date: 1899.

Remarks: Additional type material: SMF 2088, 2089, 11943; 1, 3 and 4 syntypes. – SNHMB I-10032, 1 syntype (see FRICKE 1991a: 1022). – ZMB 17478, 17479, 17480, 17481, 17482, 22312; 1, 2, 2, 2, 4 and 12 syntypes (17482 including the specimen measured in the original description). – ZMH 10834 and 10835, 2 and 2 syntypes (St. 66, St. 54).

Cyclothone obscura Brauer, 1902: BRAUER 1902: 280 ("an verschiedenen Stellen im Atlantischen und Indischen Ocean"). BRAUER 1908: pl. 6, fig. 3.
Valid (according to SCHAEFER, JOHNSON & BADCOCK in SMITH & HEEMSTRA 1986: 248).
Syntype: **SMNS 4491**, 1 specimen, 16.1 mm SL, 19.2 mm TL; Indian Ocean, between Sri Lanka and Somalia, 9°06′06″N 53°41′12″E, LV 2000 m (= 1000 m depth); BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899, St. 268); coll. date: 1 Apr. 1899; cat. entry date: 1899.
Remarks: Additional type material: SMF 2113, 1 syntype. – SNHMB I-10035, 1 syntype (see FRICKE 1991a: 1023). – ZMB 17509, 17510, 17512, 19321, 22324; 1, 1, 1, 3 and 2 syntypes (17512 = the specimen measured in the original description). – ZMH 10844, 1 syntype (St. 268).

Cyclothone pallida Brauer, 1902: BRAUER 1902: 281 ("an vielen Stellen im Atlantischen und Indischen Ozean"). BRAUER 1908: pl. 6, fig. 2 (as *Cyclothone microdon pallida*).
Valid (according to SCHAEFER, JOHNSON & BADCOCK in SMITH & HEEMSTRA 1986: 249).
Syntypes: **SMNS 4474**, 1 specimen, 22.5 mm SL; East Atlantic Ocean, Gulf of Guinea; BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899); cat. entry date: 1899. – **SMNS 4480**, 1 specimen, 33.6 mm SL; Indian Ocean, between Seychelles and Chagos Archipelago, LV 2000 m (= 1000 m depth); BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899); inv. date: 1899. – **SMNS 4482**, 1 specimen, 17.2+ mm SL; East Atlantic Ocean, Namibia, 11°28′S 9°46′E, 950–700 m, surface temp. 20.9 °C; BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899, St. 74); coll. date: 8 Sep. 1898, 06:00 h; cat. entry date: 1899. – **SMNS 4485**, 2 specimens, 11.3–28.9 mm SL; Indian Ocean, between Chagos Archipelago and Sri Lanka, 4°5′48″S 73°24′48″E, LV 2000 m (= 1000 m depth), surface temperature 27 °C, bottom temperature 1.8 °C; BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899, St. 221); coll. date: 22 Feb. 1899; cat. entry date: 1899.
Remarks: Additional type material: SMF 2092 to 2097; 1, 2, 2, 2, 1 and 9 syntypes. – SNHMB I-10020, I-10024, I-10028, I-10031; 1, 1, 1 and 2 syntypes (see FRICKE 1991a: 1023). – ZMB 17490 to 17492, 17494, 17495, 17496, 17498; 3, 1, 3, 1, 7, 1 and 1 syntypes (17496 = the specimen measured in the original description). – ZMH 8158 to 8163; 2, 1, 3, 20, 2 and 1 syntypes (St. 46, St. 190, St. 218, St. 226, St. 230, St. 232).

Cyclothone signata alba Brauer, 1906: BRAUER 1906: 80, fig. 3 ("Atlantischer und Indischer Ozean").
= *Cyclothone alba* Brauer, 1906 (according to SCHAEFER, JOHNSON & BADCOCK in SMITH & HEEMSTRA 1986: 249).
Syntypes: **SMNS 4486**, 1 specimen, 16.6 mm SL, 19.1 mm TL; Indian Ocean, between Chagos Archipelago and Zanzibar, LV 2000 m (= 1000 m depth); BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899); cat. entry date: 1899. – **SMNS 4490**, 2 specimens, 11.4–14.1 mm SL; Indian Ocean, between Sri Lanka and Chagos Archipelago, 2°29′54″N 76°47′00″E, LV 2500 m (= 1500 m depth), surface temperature 27.2 °C, bottom temperature 1.8 °C; BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899, St. 218); coll. date: 18 Feb. 1899, 15:00 h; cat. entry date: 1899. – **SMNS 4492**, 1 specimen, 23.9 mm SL, 27.1 mm TL; East Atlantic Ocean, between Canary Islands and Cape Town; BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899); cat. entry date: 1899.
Remarks: Additional type material: SMF 2108 to 2112, 11941; 1, 12, 10, 7, 2 and 2 syntypes. – SNHMB I-10021, I-10023, I-10027; 2, 1 and 1 syntypes (see FRICKE 1991a: 1023). – ZMB 17468 to 17477, 22329 to 22334; 5, 3, 2, 2, 5, 4, 2, 2, 5, 3, 8, 12, 2, 3, 3 and 4 syntypes. – ZMH 8164 to 8169; 8, 2, 7, 5, 3 and 4 syntypes (St. 64, St. 88, St. 182, St. 215, St. 231, St. 271).

Haemulidae

Diagramma sebae Bleeker, 1850: Bleeker 1850c: 24 ["Batavia, Java; Banda Neira; in mari; (up to) 380 ''' (TL)"].
= *Plectorhinchus vittatus* (Linnaeus, 1758) (according to Randall & Johnson 2000: 479).
Syntype: SMNS 24573 (old catalogue number: SMNS 760 pv), 1 specimen; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860 [not found; probably lost during World War II].

Diagramma sordidum Klunzinger, 1870: Klunzinger 1870: 735–736 ("20 cm; nicht selten").
= *Plectorhinchus sordidus* (Klunzinger, 1870) (according to Dor 1984: 150; Smith & McKay in Smith & Heemstra 1986: 568).
Syntype: **SMNS 2059**, 1 specimen, 95.9 mm SL, 110.5 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: 1876.
Remarks: Additional type material: BMNH 1871.7.15.26, 1 syntype. – ZISP 2510, 2518, 7980, 3 syntypes.
An additional SMNS specimen (SMNS 3548, 1 specimen; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: 1894) cannot be regarded as a syntype, as it was collected on Klunzinger's second trip to Egypt, while the types originate from the first trip.

Hemigaleidae

Dirrhizodon elongatus Klunzinger, 1871: Klunzinger 1871: 665 ("2,30 m; 1 Exemplar; jetzt im Museum Stuttgart").
= *Hemipristis elongata* (Klunzinger, 1871) (according to Dor 1984: 8; Compagno 1984: 440; Bass et al. in Smith & Heemstra 1986: 79).
Holotype: SMNS 1640, 1 dry specimen; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; inv. date: Jan. 1869 [not found; probably lost].

Hemiramphidae

Hemiramphus borneensis Bleeker, 1851: Bleeker 1851a: 273 ["Bandjermassing, Borneo, in fluviis; 1 specimen; 175 ''' (TL)"].
= *Zenarchopterus ectuntio* (Hamilton Buchanan, 1822) (according to Weber & Beaufort 1922: 165).
Holotype: **SMNS 10598** (old catalogue number: SMNS 760 gg), 156.7 mm SL, 174.7 mm TL; "Borneo"/Kalimantan, Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: RMNH 6981, 12 specimens, 98.1 mm, 107.7 mm, 111.9 mm, 118.6 mm, 128.0 mm, 131.8 mm, 133.1 mm, 134.0 mm, 139.1 mm, 142.0 mm, 147.7 mm, 150.3 mm TL, no types; locality not stated; Bleeker, P.; 1879; *Zenarchopterus ectuntio*.
None of the specimens of RMNH 6981 can be the holotype of *Hemiramphus borneensis*, as all of them are too small. The specimen SMNS 10598 agrees well with Bleeker's description and is therefore considered as the holotype of the nominal species *Hemiramphus borneensis*.

Heptapteridae

Pseudorhamdia fur Reinhardt in Lütken, 1874: Reinhardt in Lütken 1874: 33–34 ("Hab. in flumine Rio das Velhas").
= *Pimelodus fur* (Reinhardt in Lütken, 1874) (according to Lundberg & Littmann in Reis et al. 2003: 439).
Syntype: **SMNS 2026**, 1 specimen, 53.1 mm SL, 64.1 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.
Remarks: Additional type material: NMW 44443 and 45765, 3 and 2 syntypes. – ZMB 9181, 2 syntypes. – ZMUC 285–286, 289, 291, 297, 300, 302–303, 306, 9 syntypes.

Pseudorhamdia vittatus Krøyer in Lütken, 1874: Krøyer in Lütken 1874: 34 ("Hab. in flumine Rio das Velhas, in rivulis affluentibus, lacusculisque vicinis").
= *Pimelodella vittata* (Krøyer in Lütken, 1874) (according to Brockmann & Guazzelli in Reis et al. 2003: 421).
Syntype: **SMNS 2025**, 1 specimen, 128.1 mm SL, 155.1 mm TL; Brazil, State Minas Gerais, Semidouro Brook; Reinhardt, J.; inv. date: Jan. 1876.
Remarks: Additional type material: ZMB 9175, 2 syntypes. – ZMUC 271, 274, 275, 283–285, 6 syntypes.

Holocentridae

Holocentrum violaceum Bleeker, 1853: Bleeker 1853d: 335 ["Amboina, in mari; 125 ''' (TL)"].
= *Sargocentron violaceum* (Bleeker, 1853) (according to Randall & Heemstra in Smith & Heemstra 1986: 422).
Holotype: **SMNS 10599** (old catalogue number: SMNS 760 w), 109.2 mm SL, 125.1 mm TL; "Amboina"/Ambon, Maluku, Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: RMNH 1642, 1 specimen, 137.2 mm SL, 167.4 mm TL, no type; locality not stated; Bleeker, P.; 1879. – RMNH 28983, 4 specimens (ex RMNH 5432); Bleeker, P.

In the BMNH collection, the specimen BMNH 1880.4.21.16 (130.8 mm SL, 150 mm TL) was provided by Mr. Frank. This specimen cannot be the holotype of the species, as Bleeker (1853d: 335) noted: "longitudo speciminis unici 125 ''' [mm]". The specimen RMNH 1642 is also too large to be the holotype. Our specimen (SMNS 10599) perfectly agrees with the original description and with the stated TL; it is therefore considered as the holotype of the species. Randall & Heemstra (1985: 22) believed RMNH 5432 (i. e. RMNH 28983) was probably the holotype, but they have not examined SMNS 10599.

Kyphosidae

Pimelepterus fallax Klunzinger, 1884: Klunzinger 1884: 64–65 ("bis 30 cm").
Pimelepterus tahmel (non Forsskål, 1775): Klunzinger 1870: 795–796 ("ziemlich häufig; lebt am Korallenabhange, liebt die Tiefe, zeitenweise kommt er herauf an die Brandung").
= *Kyphosus bigibbus* (Lacepède, 1801) (according to Dor 1984: 167; Sakai & Nakabo 2004: 25–30).
Lectotype (as designated by Sakai & Nakabo 2004: 30): **SMNS 3495**, 97.6 mm SL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: 1894.
Paralectotypes: **SMNS 23084**, 2 specimens; same data as lectotype = *Kyphosus cinerascens* (Forsskål in Niebuhr, 1775) (according to Nakabo, T., personal communication). – **SMNS 23085**, 1 specimen; same data as lectotype.

Segutilum klunzingeri Whitley, 1931: Whitley 1931: 320. Based on *Pimelepterus indicus* (non Valenciennes in Cuvier & Valenciennes, 1831) of Klunzinger 1880.
Pimelepterus indicus (non Valenciennes, 1831): Klunzinger 1880: 357–358, pl. 7 ("King George's Sound; 30 cm").
Valid (according to T. Nakabo, personal communication, 1994).
Holotype: **SMNS 2673**, 231.3 mm SL, 293.5 mm TL; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; Müller, F. von; inv. date: June 1879.
Remarks: Whitley (1931: 320) stated: "Klunzinger's species is not *P. indicus* Cuvier & Valenciennes ... as has been noted by McCulloch (Rec. Austr. Mus., xiii, 1920, 56) who has regarded Klunzinger's record as referable to *Kyphosus sydneyanus*, but it is unlikely that this restricted New South Wales species records in Western Australia. The type of this new species is the specimen figured on Klunzinger's plate by Konopicky, and the type-locality is King George's Sound."

Labridae

Cheilinus celebicus Bleeker, 1853: Bleeker 1853e: 171–172 ["Macassar, Celebes; 1 specimen; 135 ''' (TL)"].
Valid (according to Beaufort 1940: 94).
Holotype: **SMNS 10602** (old catalogue number: SMNS 760 cw), 116.8 mm SL, 135.0 mm TL; "Celebes"/Sulawesi, Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: BMNH 1862.2.28.94, 1 specimen, 121 mm SL, 143 mm TL; locality not stated; Bleeker, P.; 1862; with the label: "Too large to be a type. J. Randall". – RMNH 6559, 1 specimen, 138.1 mm SL, 158.7 mm TL, no type [too large; locality]; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879.

Cossyphus frenchii Klunzinger, 1880: Klunzinger 1880: 400–401 ("King George's Sound; 30 cm").
= *Bodianus frenchii* (Klunzinger, 1880) (according to Parenti & Randall 2000: 5).
Holotype: **SMNS 2685**, 243 mm SL, 287 mm TL; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; Müller, F. von; inv. date: June 1879.

Julis (Halichoeres) harloffii Bleeker, 1847: Bleeker 1847a: 159 ("Pagotang, Java merid."). Bleeker 1849d: 22–23 ("Pagotang, Java merid.").
Halichoeres poecila (Lay & Bennett, 1839): Bleeker 1862: 115.
= *Halichoeres margaritaceus* (Valenciennes in Cuvier & Valenciennes, 1839) (according to Parenti & Randall 2000: 22).
Syntypes: **SMNS 10604** (old catalogue number: SMNS 760 my), 2 specimens: specimen 1, 67.7 mm SL, 78.4+ mm TL; specimen 2, 65.9 mm SL, 77.9+ mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: BMNH 1862.2.28.83, 1 specimen; locality not stated; Bleeker, P.; 1862 [not found during a type search in the BMNH collection in 1989].

Julis (Julis) jansenii Bleeker, 1856: Bleeker 1856: 56–57 ["Manado, Celebes, in mari; 8 specimens; 90–165 ''' (TL)"].
= *Thalassoma jansenii* (Bleeker, 1856) (according to Beaufort 1940: 119).
Syntype: SMNS 24574 (old catalogue number: SMNS 760 ni), 1 specimen; "Celebes"/Sulawesi, Indonesia; Bleeker, P.; cat. entry date: 1860 [not found; probably lost during World War II].
Remarks: Additional Bleeker material: AMS I.695, 1 specimen [received from Day] [destroyed in 1911 according to Eschmeyer in Froese & Pauly 2004]. – BMNH 1864.5.15.32, 1 specimen. – NMV 46232, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 6631, 18 specimens, probably syntypes of *Julis jansenii* included; locality not stated; Bleeker, P.; 1879.

Julis (Halichoeres) modestus Bleeker, 1847: Bleeker 1847a: 160 ("Java"). Bleeker 1849d: 26–27 ["Batavia, Java; 145 ''' (maximum TL)"].
= *Halichoeres chloropterus* (Bloch, 1791) (according to Parenti & Randall 2000: 20).
Syntypes: **SMNS 10606** (old catalogue number: SMNS 817 ag), 2 specimens: specimen 1, 76.5 mm SL, 91.4 mm TL; specimen 2, 74.0 mm SL, 90.3 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: NMV 46189–46190, 2 specimens, no types; locality not stated; Bleeker, P.; 1879. – RMNH 14265, 1 syntype of *Julis modestus*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879. – ZMB 4777, 1 specimen; Bleeker, P.

Julis (Halichoeres) polyophthalmus Bleeker, 1852: Bleeker 1852c: 731 ["Lepar, Banka et Cauer, Sumatra; 2 specimens; 72–73 ''' (TL)"].
= *Halichoeres argus* (Bloch & Schneider, 1801) (according to Beaufort 1940: 230).
Syntypes: **SMNS 10607** (old catalogue number: SMNS 817 k), 2 specimens: specimen 1, 60.5 mm SL, 73.2 mm TL; specimen 2, 58.2 mm SL, 71.9 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.

Remarks: Additional BLEEKER material: RMNH 31252, 1 specimen, 50.8 mm SL, 61.1 mm TL, no type [too small]; locality not stated; BLEEKER, P.; 1879.

Julis rüppellii Klunzinger, 1871: KLUNZINGER 1871: 536–537 ("20–25 cm; sehr gemein, findet sich nur in der Nähe des Korallenabhanges").
= *Thalassoma rueppellii* (Klunzinger, 1871) (according to DOR 1984: 210).
Lectotype: **SMNS 21215**, 161.5 mm SL, 208.3 mm TL (ex SMNS 3557); "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1894.
Paralectotype: **SMNS 3557**, 12 specimens, 152.2 mm SL, 179.9 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1894.
Remarks: Lectotype designation by FRICKE (1999a: 442). ESCHMEYER in FROESE & PAULY (2004) erroneously quotes p. 434 in FRICKE (1999a).
Additional type material: NMW 27523, 1 paralectotype. – ZISP 2550 and 2559, 2 paralectotypes.

Labrichthys biserialis Klunzinger, 1880: KLUNZINGER 1880: 402 ("King George's Sound; 20 cm").
= *Pseudolabrus biserialis* (Klunzinger, 1880) (according to PARENTI & RANDALL 2000: 37).
Syntypes: SMNS 2569, skull; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; MÜLLER, F. VON; cat. entry date: 4 Nov. 1878 [not found; probably lost]. – **SMNS 2682**, 3 specimens, 156.7 mm, 167.7 mm and 168.1 mm SL – 187.0 mm, 201.7 mm and 202.7 mm TL; same locality as SMNS 2569; MÜLLER, F. VON; inv. date: June 1879.
Remarks: A note in the SMNS inventory says for SMNS 2569: "zum Schädel" [the specimen was partly disintegrated, the skull was preserved].

Labrichthys tetrica var. *fuscipinnis* Klunzinger, 1872: KLUNZINGER 1872: 37 ("Südaustralien"). KLUNZINGER 1880: 402 ("Port Philip").
= *Notolabrus tetricus* (Richardson, 1840) (according to PARENTI & RANDALL 2000: 31).
Holotype: **SMNS 1549**, 1 specimen, 390 mm SL, 450 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; cat. entry date: Oct. 1868.
Remarks: Additional MÜLLER material: SMNS 2342, 1 specimen, no type; Australia, Victoria, Port Philip; MÜLLER, F. VON; cat. entry date: Dec. 1877.

Labrichthys tetrica var. *ocellata* Klunzinger, 1880: KLUNZINGER 1880: 402 ("Murray-River; 20–35 cm").
? = *Notolabrus tetricus* (Richardson, 1840) (according to PARENTI & RANDALL 2000: 31).
Holotype: **SMNS 2333**, 166 mm SL, 202 mm TL; Australia, South Australia, Murray River; MÜLLER, F. VON; cat. entry date: Dec. 1877.

Labrichthys tetrica var. *tigripinnis* Klunzinger, 1872: KLUNZINGER 1872: 37 ("Südaustralien").
= *Notolabrus tetricus* (Richardson, 1840) (according to PARENTI & RANDALL 2000: 31).
Syntypes: **SMNS 1659**, 2 specimens, 233 mm and 274 mm SL, 276 mm and 312 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; cat. entry date: May 1869.

Platychoerops mülleri Klunzinger, 1880: KLUNZINGER 1880: 399–400, pl. 8, fig. 2 ("King George's Sound; 28 cm").
= *Achoerodus gouldii* (Richardson, 1843) (according to MCCULLOCH 1929: 321).
Holotype: **SMNS 2686**, 331 mm SL, 379 mm TL; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; MÜLLER, F. VON; inv. date: June 1879.

Thalassoma mascarenum Fricke, 1999: FRICKE 1999a: 437–443, figs. 6A, 7A ("Indian Ocean, République Française, Département Réunion, Réunion Island, west side, Les Filaos, 21°04′41″S 55°13′03″E, lagoon and reef habitat with live corals, sand and gravel, 0.2–1 m depth").
= *Thalassoma genivittatum* (Valenciennes in Cuvier & Valenciennes, 1839) (according to PARENTI & RANDALL 2000: 45).
Holotype: **SMNS 17003**, 96.8 mm SL; Indian Ocean, Réunion Island, W side, Les Filaos,

21°04′41″S 55°13′03″E, lagoon and reef habitat with live corals, sand and gravel, 0.2–1 m depth; FRICKE, R., St. RE 95/09; 8 Sep. 1995.

Paratypes: **SMNS 16841**, 4 specimens, 86.8–106.6 mm SL; Mauritius, Mauritius Island, NE side, Poste Lafayette, 30 km ENE Port Louis, at Coral Beach Bungalows, 20°08′00″S 57°44′20″E, lagoon: sand, gravel, seagrass, dead and live coral, 0.8–1.8 m depth; FRICKE, R., St. MAU 97/05; 3 Oct. 1995. – **SMNS 16933**, 1 specimen, 42.9 mm SL; Mauritius, Mauritius Island, NE side, Pointe de Roches Noires, 6 km E Rivière du Rempart, 20°06′20″S 57°44′15″E, rock pools with sand, gravel, seagrass, rocks, boulders, algae, 0–0.3 m depth; FRICKE, R., St. MAU 95/10; 8 Oct. 1995. – **SMNS 16992**, 1 specimen, 65.1 mm SL; Indian Ocean, Réunion Island, Les Filaos, 4 km SSW Saint-Gilles-les-Bains, 10 km SW Saint-Paul, 21°04′41″S 55°13′03″E, lagoon with live corals, coarse sand, 0.3–1 m depth at falling tide; FRICKE, R., St. RE 95/05; 6 Sep. 1995. – **SMNS 17212**, 1 specimen, 69.4 mm SL; Indian Ocean, Republic of Mauritius, Rodriguez Island, E side of island, Baie de Cotton, at Pointe Cotton, 8 km E Port Mathurin, 19°41′10″S 63°29′48″E, 0.5–2 m depth at falling tide; FRICKE, R., St. ROD 95/10; 22 Sep. 1995. – **SMNS 20875**, 1 specimen, 55.0 mm SL; Indian Ocean, Réunion Island, W coast, N end of narrow fringing reef 250 m N of Boucan-Canot, 5 km WSW Saint-Paul, 21°01′35″S 55°13′36″E, intertidal area near black rocks on shore: rocks, algae, corals, gravel, 0–1.2 m depth at low tide; FRICKE, R. & RIBES, S., St. RE 98/10; 18 Dec. 1998. – **SMNS 20897**, 3 specimens, 37.3–68.2 mm SL; Indian Ocean, Réunion Island, W coast, Les Filaos, L'Hermitage-les-Bains, 11 km SW Saint-Paul, 21°06′16″S 55°12′38″E, lagoon and reef: gravel, dead and live corals, boulders, 0–0.5 m depth at extremely low tide; FRICKE, R., St. RE 98/11; 18 Dec. 1998, 17:45–19:45 h. – **SMNS 21134**, 4 specimens, 42.6–69.2 mm SL; Indian Ocean, Réunion Island, W coast, Les Filaos, L'Hermitage-les-Bains, 10.5 km SW Saint-Paul, 21°04′41″S 55°13′03″E, lagoon reef: live corals, few dead corals, 0–0.6 m depth at falling tide; FRICKE, R., St. RE 98/24; 1 Jan. 1999.

Remarks: Additional type material: MNHN 1999-0491 and 1999-0492, 2 paratypes.

Latridae

Micropus mülleri Steindachner, 1879: STEINDACHNER 1879d: 31 ("Hobsons Bay, Victoria"). STEINDACHNER 1879b: 7–8 ("Hobsonbay, Victoria; 1 specimen; 19 cm").

= *Orqueta muelleri* (Steindachner, 1879) (according to MCCULLOCH 1929: 192; SMITH-VANIZ in ESCHMEYER 1990: 247).

Holotype: **SMNS 2238**, 156.9 mm SL, 189.8 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; inv. date: Apr. 1877.

Remarks: The genus *Micropus* Kner, 1868 was preoccupied four times and was replaced by *Orqueta* Jordan, 1919 (SMITH-VANIZ in ESCHMEYER 1990: 247).

Leiognathidae

Equula bindoides Bleeker, 1851: BLEEKER 1851c: 372 ["Batavia; 42 specimens; 50–80 ‴ (TL)"]. BLEEKER 1852b: 83.

= *Leiognathus bindus* (Valenciennes in Cuvier & Valenciennes, 1835) (according to WEBER & BEAUFORT 1931: 334).

Syntype: **SMNS 10611** (old catalogue number: SMNS 817 bo), 1 specimen, 58.7 mm SL, 68.9 mm TL; "Indischer Archipel"/Indonesia; BLEEKER, P.; cat. entry date: 1861.

Remarks: Additional BLEEKER material: RMNH 8218, 9 syntypes of *Equula bindoides*; "Batavia, Java"/Jakarta, Java, Indonesia; BLEEKER, P.; 1852. – RMNH 8219, 31 specimens, probably syntypes of *Equula bindoides* included; locality not stated; BLEEKER, P.; 1879.

Equula novae Hollandiae Steindachner, 1879: STEINDACHNER 1879d: 31 ("Townsville").

Equula novae-hollandiae: STEINDACHNER 1879b: 11–12 ("Townsville, Clevelandsbay, Australien; 1 specimen; nearly 9 cm").

= *Leiognathus leuciscus* (Günther, 1860) (according to JONES 1985: 590).

Holotype: SMNS 2285; Australia, Queensland, Cleveland Bay, Townsville, 19°16′S 146°48′E; MÜLLER, F. VON; cat. entry date: Apr. 1877 [lost].

Remarks: Catalogue entry "VII 1958/p.: da verschimmelt, unbrauchbar" [discarded in July 1958].

Equula splendens var. *novemaculata* Klunzinger, 1880: Klunzinger 1880: 379 ("Queensland; 1 specimen").
= *Leiognathus splendens* (Cuvier, 1829) (according to Weber & Beaufort 1931: 324–325).
Holotype: **SMNS 2448**, 75.6 mm SL, 92.3 mm TL; Australia, Queensland, Endeavour River; Müller, F. von; cat. entry date: Aug. 1878.

Leptobramidae

Leptobrama mülleri Steindachner, 1879: Steindachner 1879a: 388.
= *Leptobrama muelleri* Steindachner, 1879 (according to McCulloch 1929: 235; Weber & Beaufort 1936: 220).
Syntypes: **SMNS 2293**, 2 specimens, 122.6 mm and 154.5 mm SL, 192.2 mm and 220.0 mm TL; Australia, Queensland, Cleveland Bay, near Townsville, 19°16′S 146°48′E; Müller, F. von; cat. entry date: Apr. 1877. – **SMNS 2415**, 2 specimens, 134.2 mm and 149.6 mm SL, 162.8 mm and 179.0 mm TL; Australia, Queensland, Endeavour Strait, 10°50′S 142°15′E; Müller, F. von; cat. entry date: Aug. 1878.

Lethrinidae

Lethrinus acutus Klunzinger, 1884: Klunzinger 1884: 39, pl. 7, fig. 1 ("häufig").
Lethrinus ramak (non Forsskål, 1775): Klunzinger 1870: 752.
= *Lethrinus microdon* Valenciennes in Cuvier & Valenciennes, 1830 (according to Carpenter & Allen 1989: 71).
Syntypes: **SMNS 913**, 2 specimens, 152.1 mm and 202.9 mm SL, 188.9 mm and 252.8 mm TL; "Massaua"/Mesewa, Eritrea, Red Sea, 15°38′N 39°28′E; Heuglin, T. von; 1862. – **SMNS 3448**, 1 specimen, 114.9 mm SL, 136.8+ mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: 1894.
Remarks: Additional type material: NMW 8890, 1 syntype. – NMW 8893, 3 syntypes.

Lethrinus xanthochilus Klunzinger, 1870: Klunzinger 1870: 753 ("30–45 cm; selten; theils mit dem Ringnetze auf der Klippe, theils mit der Angel … gefangen").
Valid (according to Carpenter & Allen 1989: 89).
Syntype: SMNS 1602, 1 dry specimen; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; inv. date: 1869 [not found; probably lost].
Remarks: Additional type material: ZMB 7984, 1 syntype.

Loricariidae

Plecostomus lima Reinhardt in Lütken, 1874: Reinhardt in Lütken 1874: 29–30 ("Hab. in rivulis flumini Rio das Velhas affluentibus").
= *Hypostomus lima* (Reinhardt in Lütken, 1874) (according to Weber in Reis et al. 2003: 359).
Syntype: **SMNS 2050**, 1 specimen, 92.3 mm SL, 112.3 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.
Remarks: Additional type material: BMNH 1876.1.10.1–2, 2 syntypes. – MNHN 9573, 1 syntype. – NMW 44194–95, 2 syntypes. – ZMUC 51, 56–59, 61, 6 syntypes.

Lutjanidae

Diacope metallicus Bleeker, 1854: Bleeker 1854c: 63 ("Batavia"). Bleeker 1845: 524, 525 ("Java"; no distinguishing features).
Mesoprion annularis Valenciennes in Cuvier & Valenciennes, 1828: Bleeker 1849c: 47.
= *Lutjanus malabaricus* (Bloch & Schneider, 1801) (according to Dor 1984: 141–142).
Syntype: **SMNS 10612** (old catalogue number: SMNS 760 la), 1 specimen, 102.8 mm SL, 130.4 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: RMNH 8184, 1 syntype of *Diacope metallicus*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1852; *Mesoprion malabaricus*.

Mesoprion xanthopterygius Bleeker, 1849: Bleeker 1849c: 46 ["Batavia, Java; (up to) 141 ''' (TL)"].
= *Lutjanus lutjanus* Bloch, 1790 (according to Allen & Talbot 1985: 53).
Syntype: **SMNS 10613** (old catalogue number: SMNS 817 by), 1 specimen, 92.3 mm SL, 114.9 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: RMNH 256, 3 syntypes of *Mesoprion xanthopterygius*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879. – RMNH 5528, several specimens, perhaps syntypes of *Mesoprion xanthopterygius* included; locality not stated; Bleeker, P.; 1879. – RMNH 8194, 7 specimens, no types; locality not stated; Bleeker, P.; 1854.

Mobulidae

Dicerobatis monstrum Klunzinger, 1871: Klunzinger 1871: 687–688 ("54 cm Scheibenlänge bei dem vorliegenden Exemplare, einem Fötus; das gestrandete Muttertier mass gegen 2 m").
= *Mobula diabolus* (Shaw, 1804) (according to Dor 1984: 21).
Holotype: SMNS 1632, 1 dry specimen; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; inv. date: Jan. 1869 [not found; probably lost].

Monacanthidae

Monacanthus choirocephalus Bleeker, 1852: Bleeker 1852d: 19–20, pl. 2, fig. 4 ("Batavia, Java; 8 specimens").
= *Paramonacanthus choirocephalus* (Bleeker, 1852) (according to Hutchins 1997: 19).
Syntypes: **SMNS 10614** (old catalogue number: SMNS 817 bl), 3 specimens: specimen 1, 46.3 mm SL, 60.2 mm TL; specimen 2, 44.2 mm SL, 57.8 mm TL; specimen 3, 41.0 mm SL, 54.2 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: AMS B.7612, 1 specimen; Bleeker, P. – BMNH 1867.11.28.204, 1 specimen; Bleeker, P. – MNHN 4788, 2 specimens; Bleeker, P. – NMV 46537, 2 specimens, no types; locality not stated; Bleeker, P.; 1879. – RMNH 7301, 47 specimens, perhaps syntypes of *Monacanthus choirocephalus* included; locality not stated; Bleeker, P.; 1879. – RMNH 12038, 11 specimens, no types; locality not stated; Bleeker, P.; 1879.

Monacanthus trichurus Bleeker, 1853: Bleeker 1853f: 125–126 ["Amboina, in mari; 88–105 ''' (TL); 5 Speciminum (2 masc.)"].
= *Acreichthys tomentosus* (Linnaeus, 1758) (according to Beaufort & Briggs 1962: 318, as *Monacanthus tomentosus*).
Syntypes: **SMNS 10615** (old catalogue number: SMNS 817), 2 specimens; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861 [present in 1989, but not found after moving the collection in 1990].
Remarks: Additional Bleeker material: BMNH 1867.11.28.1451, 1 specimen; locality not stated; Bleeker, P.; 1867. – BMNH 1867.11.28.143, 1 specimen; locality not stated; Bleeker, P.; 1867. – NMV 46363–46364, 2 specimens: specimen 1, 51.0 mm SL, 60.6 mm TL; specimen 2, 87.3 mm SL, 106.3 mm TL, no types; locality not stated; Bleeker, P.; 1879. – RMNH 11984, 4 specimens, no types; locality not stated; Bleeker, P.; 1879.

Moridae

Physiculus palmatus Klunzinger, 1872: Klunzinger 1872: 38 ("Port Philip; Hobson Bay; up to 50 cm"). Steindachner 1879b: 12. Klunzinger 1880: 405.
= *Pseudophycis barbata* Günther, 1863 (according to Paxton et al. 1989: 302).
Syntypes: **SMNS 1589**, 1 adult specimen, 174.3 mm SL, 190.5 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; Müller, F. von; cat. entry date: Oct. 1868. – SMNS 1792, 1 young specimen; Australia, Victoria, Port Philip, Queens Cliff, 38°16′S 144°40′E; Müller, F. von; cat. entry date: June 1871 [not found; probably lost].
Remarks: Additional Müller material: SMNS 2242, 1 specimen, no type; Australia, Victoria, Hobsons Bay; cat. entry date: Apr. 1877.

Mugilidae

Mugil belanak Bleeker, 1857: Bleeker 1857: 337 ("Batavia").
= *Liza planiceps* (Valenciennes in Cuvier & Valenciennes, 1836) (according to Harrison & Senou 1999: 2091).
Syntypes: **SMNS 10616** (old catalogue number: SMNS 817 cd), 3 specimens: specimen 1, 183.2 mm SL, 217.8 mm TL; specimen 2, 166.0 mm SL, 206.7 mm TL; specimen 3, 109.5 mm SL, 133.7 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: RMNH 6388, 8 specimens, syntypes included; Bleeker, P. – BMNH 1860.3.19.367–370, 4 specimens; Bleeker, P. – BMNH 1880.4.21.155–158, 4 specimens; Bleeker, P.

Mugil gelatinosus Klunzinger, 1872: Klunzinger 1872: 35–36 ("Murray River; 45 cm"). Klunzinger 1880: 395.
= *Mugil cephalus* Linnaeus, 1758 (according to Thomson 1997: 485).
Holotype: **SMNS 1563**, 355 mm SL, 433 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; Müller, F. von; inv. date: Oct. 1868.

Mugil mülleri Klunzinger, 1880: Klunzinger 1880: 395 ("King George's Sound; 8 cm").
= *Mugil cephalus* Linnaeus, 1758 (according to Thomson 1997: 485).
Holotype: SMNS 2572; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; Müller, F. von; cat. entry date: 4 Nov. 1878 [not found; probably lost].

Myxus superficialis Klunzinger, 1870: Klunzinger 1870: 831 ("3 cm. In Korallgruben, auf der Oberfläche des Wassers herumschwimmend").
= *Mugil cephalus* Linnaeus, 1758 (according to Dor 1984: 192).
Syntypes: **SMNS 1748**, 3 specimens, 25.1 mm, 27.1 mm and 32.1 mm SL – 28.1+ mm, 31.5 mm and 34.6+ mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; inv. date: May 1871.
Remarks: Additional type material: MCZ 3813, 2 syntypes. – SMF 1869, 2 syntypes. – ZISP 2640, 2 syntypes [lost according to Eschmeyer in Froese & Pauly 2004]. – ZMB 10511 and 7999, 1 and 3 syntypes.

Mullidae

Mulloides ruber Klunzinger, 1870: Klunzinger 1870: 743–744 ("30–40 cm; ziemlich selten").
= *Mulloidichthys vanicolensis* (Valenciennes in Cuvier & Valencienes, 1831) (according to Dor 1984: 161, as *Mulloides vanicolensis*).
Syntypes: **SMNS 2061**, 2 specimens, 198.2 mm and 200.3+ mm SL, 233.2 mm and 248.8 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: 1876. – SMNS 24575, 1 skull; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: 1876 [not found; probably lost].
Remarks: Additional type material: ZISP 2523, 1 syntype. – ZMB 7982, 1 syntype.

Parupeneus notospilus Klunzinger, 1884: Klunzinger 1884: 51–52, pl. 5, fig. 3 ("nie über 12 cm; ziemlich häufig im Hafen von Kosseir").
?*Upeneus spilurus* Bleeker, 1854: Klunzinger 1870: 747 ("nicht häufig; im Hafen; 12 cm").
= *Parupeneus rubescens* (Lacepède, 1801) (according to Ben-Tuvia in Smith & Heemstra 1986: 612).
Syntypes: **SMNS 3545**, 6 specimens, 67.4 mm, 77.9 mm, 82.2 mm, 82.4 mm, 88.2 mm and 91.2 mm SL – 80.7 mm, 92.9 mm, 94.0+ mm, 95.6+ mm, 103.4+ mm and 106.4+ mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; inv. date: 1894.

Upeneoides variegatus Bleeker, 1849: Bleeker 1849c: 64 ["Batavia, Java; (up to) 128 ‴ (TL)"]. Bleeker 1845: 528 ("Java"; no distinguishing characters).
= *Upeneus tragula* Richardson, 1846 (according to Weber & Beaufort 1931: 368).
Paralectotypes: **SMNS 10617** (old catalogue number: SMNS 817 ba), 2 specimens: spec-

imen 1, 100.5 mm SL, 128.1 mm TL; specimen 2, 72.7 mm SL, 90.3 mm TL; "Indischer Archipel"/Indonesia; BLEEKER, P.; cat. entry date: 1861.

Remarks: Additional BLEEKER material: NMV 46675–46677, 3 specimens, no types; locality not stated; BLEEKER, P.; 1879. – RMNH 5720, 1 specimen, lectotype of *Upeneoides variegatus*; locality not stated; BLEEKER, P.; 1879. – RMNH 25409, 10 specimens, no types; locality not stated; BLEEKER, P.; 1879. – RMNH 25449, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 25498, 11 specimens, including syntypes of *Upeneoides variegatus*; locality not stated; BLEEKER, P.; 1879.

Myctophidae

Myctophum valdiviae Brauer, 1905: BRAUER 1905: 398, fig. 6 ("auf zahlreichen Stationen im Atlantischen und Indischen Ozean; 66 Ex").

= *Notolychnus valdiviae* (Brauer, 1905) (according to HULLEY in SMITH & HEEMSTRA 1986: 315).

Syntype: **SMNS 4477**, 1 specimen, 19.0 mm SL, 21.7 mm TL; Indian Ocean, between Seychelles and Zanzibar, 4°34.8′S 53°42.8′E, LV 2000 m (= 1000 m depth), bottom temp. 2.1 °C; BRAUER, A. (Deutsche Tiefsee-Expedition 1898/1899, St. 235); coll. date: 9 Mar. 1899, 08:00 h; cat. entry date: 1899.

Remarks: Additional type material: SMF 2074, 2075, 11942, 17729; 1, 4, 1 and 7 syntypes. – SNHMB I-10017, 1 syntype (see FRICKE 1991a: 1023). – ZMB 17586 to 17589, 20007; 1, 2, 4, 4 and 1 syntypes.

Scopelus coeruleus Klunzinger, 1871: KLUNZINGER 1871: 592–593 ("11 cm; selten").

= *Diaphus coeruleus* (Klunzinger, 1871) (according to DOR 1984: 49).

Syntypes: **SMNS 1775**, 2 specimens; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: May 1871.

Remarks: Additional type material: ZMB 8059, 1 syntype.

Neosebastidae

Scorpaena ambigua Klunzinger, 1872: KLUNZINGER 1872: 27 ("Hobson Bay; 40 cm").

Sebastes scorpaenoides (Guichenot, 1867): KLUNZINGER 1880: 365–366.

= *Neosebastes scorpaenoides* Guichenot, 1867 (according to PAXTON et al. 1989: 445).

Syntypes: **SMNS 1560**, 2 specimens, 238 mm and 318 mm SL, 290 mm and 396 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; cat. entry date: Oct. 1868.

Remarks: Additional MÜLLER material: SMNS 2336, 1 specimen, no type; Australia, South Australia, Murray River; MÜLLER, F. VON; Dec. 1877.

Notopteridae

Notopterus lopis Bleeker, 1851: BLEEKER 1851h: 422 ("Batavia, Java").

Notopterus lopies Bleeker, 1845: BLEEKER 1845: 510 ("Batavia, Java"). Not available, no diagnostic characters given.

= *Chitala lopis* (Bleeker, 1851) (according to NG & TAN 1999: 352).

Syntype: **SMNS 10620** (old catalogue number: SMNS 760 dv), 1 specimen, 193.4 mm SL, 208.0 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: BMNH 1867.22.28.5, 1 specimen; locality not stated; BLEEKER, P.; 1867. – MNHN 3609, 1 specimen; BLEEKER, P.

Nototheniidae

Trematomus brachysoma Pappenheim, 1913: PAPPENHEIM 1913: 172–173 ("Von dieser Art liegen 39 Individuen vor").

= *Pagothenia brachysoma* (Pappenheim, 1913) (according to DEWITT, HEEMSTRA & GON in GON & HEEMSTRA 1990: 309).

Paralectotype: **SMNS 4604**, 1 specimen, 133.5 mm SL, 158.5 mm TL; Gauss-Station, Antarctica, 66°15′S 88°55′E, surface; Deutsche Südpolar-Expedition 1901–1903; cat. entry date: 1912.

Remarks: Additional type material: ZISP 41512, 1 paralectotype (ex ZMB 18903). – ZISP

uncat., 1 paralectotype [stained]. – ZMB 18904, lectotype (as designated by ANDRIASHEV 1976: 870). – ZMB 18905, 2 paralectotypes. – ZMB 18906, 1 syntype [lacking according to A. P. ANDRIASHEV, personal communication, 1994]. – ZMB 18907 to 18909, 31604; 2, 1, 1 and 5 paralectotypes. – ZMB 31728, 2 syntypes. – ZMH 8155, 2 syntypes. – ZMUC uncat., 1 paralectotype (ex ZMB 18904). – ZMUC uncat., 1 paralectotype (ex ZMB 18907). – The following syntypes were misidentified specimens of *Pagothenia borchgrevinki* Boulenger, 1902 [according to A. P. ANDRIASHEV, personal communication, 1994]: ZMB 18903, 18908, 18910, 18911; 6, 1, 3 and 3 syntypes.

Ophichthidae

Ophichthys arenicola Klunzinger, 1871: KLUNZINGER 1871: 609–610 ("20–40 cm; häufig im Sand und Schlamm im Hafen").

= *Cirrhimuraena playfairii* (Günther, 1870) (according to DOR 1984: 35, as *Jenkinsiella playfairii*; MCCOSKER & CASTLE in SMITH & HEEMSTRA 1986: 179).

Syntypes: **SMNS 1781**, 2 specimens, 165+ mm and 335.0 mm SL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: May 1871.

Remarks: Additional type material: MCZ 3767, 3 syntypes. – NMW 65136, 2 syntypes. – SMF 835, 1 syntype. – ZISP 2570 and 8066, 2 syntypes. – ZMB 8066, 1 syntype.

Ophidiidae

Genypterus tigerinus Klunzinger, 1872: KLUNZINGER 1872: 39–40 ("Südaustralien"). KLUNZINGER 1880: 405–406.

Valid (according to PAXTON et al. 1989: 312).

Syntypes: **SMNS 1574**, 1 damaged specimen, 285+ mm SL, 297.6+ mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; cat. entry date: Oct. 1868. – **SMNS 1664**, 1 specimen, 356 mm SL, 368 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; inv. date: May 1869. – SMNS 24576, 1 skeleton (ex SMNS 1574); Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; inv. date: Oct. 1868 [not found].

Remarks: Additional MÜLLER material: SMNS 2246, 1 specimen, no type; Australia, Victoria, Hobsons Bay; Apr. 1877. – SMNS 3371, 1 specimen, no type; Australia, Victoria, Hobsons Bay; 1891.

Osphronemidae

Trichopus sepat Bleeker, 1845: BLEEKER 1845: 520 ("Java"). Apparently not available, no distinguishing features (according to ESCHMEYER in FROESE & PAULY 2004).

= *Trichogaster trichopterus* (Pallas, 1770) (according to ROBERTS 1989: 177).

Syntypes: **SMNS 10575** (old catalogue number: SMNS 760 eq), 2 specimens: specimen 1, 75.0 mm SL, 94.2 mm TL; specimen 2, 69.7 mm SL, 87.1 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860. – **SMNS 10669** (old catalogue number: SMNS 760 eq), 5 specimens: specimen 1, 65.8 mm SL, 81.9 mm TL; specimen 2, 57.3 mm SL, 70.5 mm TL; specimen 3, 54.2 mm SL, 69.7 mm TL; specimen 4, 54.9 mm SL, 67.1 mm TL; specimen 5, 52.3 mm SL, 66.4 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: NMV 46664–46665, 2 specimens, no types; locality not stated; BLEEKER, P.; 1879; *Trichogaster trichopterus*. – RMNH 1604, 1 syntype of *Trichopus sepat*; "Batavia, Java"/Jakarta, Java, Indonesia; BLEEKER, P.; 1879.

Trichopus striatus Bleeker, 1850: BLEEKER 1850b: 11 ("Batavia, Serang; Java").

= *Trichopsis vittata* (Cuvier, 1831) (according to WEBER & BEAUFORT 1922: 351, as *Ctenops vittatus*).

Syntype: **SMNS 10621** (old catalogue number: SMNS 760), 1 specimen, 32.2 mm SL, 47.4 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.

Ostraciidae

Ostracion rhinorhynchos Bleeker, 1852: BLEEKER 1852d: 34, pl. 6, fig. 12 ["Batavia, Java; in mari; 6 specimens; 136–273 ‴ (TL)"].

Valid (according to BEAUFORT & BRIGGS 1962: 354).

Syntype: **SMNS 10622** (old catalogue number: SMNS 760 hc), 1 specimen, 186.9 mm SL, 228.7 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: BMNH 1867.11.28.92, 1 specimen. – MNHN 2224, B.1752, B.1753; 1, 3 and 3 specimens. – NMV A861, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879. – RMNH 7318, 5 specimens, perhaps syntypes of *Ostracion rhinorhynchos* included; locality not stated; BLEEKER, P.; 1879. – RMNH 12014, 1 specimen, no type; locality not stated; BLEEKER, P.; 1879.

Pempheridae

Pempherichthys güntheri Klunzinger, 1871: KLUNZINGER 1871: 470–471 ("6 cm; selten").
= *Parapriacanthus ransonneti* (Klunzinger, 1871) (according to RANDALL 1995: 244).
Syntype: **SMNS 1752**, 1 specimen, 51.4 mm SL, 59.3 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: May 1871.
Remarks: Additional type material: BMNH 1871.7.15.35, 1 syntype. – ZMB 8007, 1 syntype.

Pempheris klunzingeri McCulloch, 1911: MCCULLOCH 1911: 47 (replacement name for *Pempheris mülleri* Klunzinger, 1880), see below.

Pempheris mülleri Klunzinger, 1880: KLUNZINGER 1880: 380–381, pl. 6 ("King George's Sound; 17 cm").
= *Pempheris klunzingeri* McCulloch, 1911 (according to MCCULLOCH 1929: 234).
Holotype: **SMNS 2559**, 141.2 mm SL, 160.2 mm TL; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; MÜLLER, F. VON; inv. date: 4 Nov. 1878.
Remarks: This specimen is also the holotype of *Pempheris klunzingeri* McCulloch, 1911, which is a replacement name for *Pempheris mülleri* Klunzinger, 1880, preoccupied by *Pempheris mülleri* Poey, 1860.

Pempheris multiradiatus Klunzinger, 1880: KLUNZINGER 1880: 381 ("King George's Sound; 17 cm").
= *Pempheris multiradiata* Klunzinger, 1880 (according to MOOI & JUBB 1996: 128).
Syntypes: **SMNS 2557**, 3 specimens, 145.8 mm, 158.5 mm and 172.9 mm SL – 188.1 mm, 198.4 mm and 224.1 mm SL; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; MÜLLER, F. VON; inv. date: 4 Nov. 1878. – **SMNS 2676**, 4 specimens, 121.2 mm, 127.1 mm, 142.7 mm and 184.1 mm SL – 160.8 mm, 167.1 mm, 174.7 mm and 226.7+ mm TL; same locality as SMNS 2557; MÜLLER, F. VON; cat. entry date: June 1879. – SMNS 24577, 1 skeleton (ex SMNS 2676); same locality as SMNS 2557; MÜLLER, F. VON; inv. date: June 1879 [not found].
Remarks: Additional type material: NMW 78547, 1 syntype.

Pempheris ypsilychnus Mooi & Jubb, 1996: MOOI & JUBB 1996: 123, figs. 4B, 7–8 ("Broome, 17°59′S, 122°11′E, Western Australia, 1 m depth").
Valid (according to MOOI 2001: 3204).
Paratype: **SMNS 14293**, 2 specimens; Australia, Western Australia, Exmouth Gulf, off Exmouth airport to off Exmouth rubbish dip, ca. 6–12 km S Exmouth, ca. 2–3 km offshore, 22°00′00″S 114°08′30″E – 22°02′20″S 114°08′20″E, 11–14 m depth; FRICKE, R. & F/V 'Denison', St. RF 92 WA 17; 2 Sep. 1992 (18:30 h) – 3 Sep. 1992 (06:30 h).
Remarks: Additional type material: WAM P.28059-019, holotype. – AMS I.15557-187, 7 paratypes. – CSIRO C3443, 1 paratype. – MPM 31024, 4 paratypes. – NTM S.13227-001, 1 paratype. – USNM 337546, 1 paratype. – WAM P.28059-023 and P.28416-019, 2 paratypes.

Percichthyidae

Paradules obscurus Klunzinger, 1872: KLUNZINGER 1872: 20–21 ("Yarra Sagoon; 4,5 cm"). KLUNZINGER 1880: 25, pl. 1, fig. 2.
= *Nannoperca obscura* (Klunzinger, 1872) (according to PAXTON et al. 1989: 541).
Syntypes: **SMNS 1598**, 27 specimens, 13.3–33.6 mm SL, 15.6–43.1 mm TL; Australia,

Victoria, Yarra River Lagoon, at Melbourne, 37°49′S 144°58′E; MÜLLER, F. VON; cat. entry date: Oct. 1868.

Remarks: Additional MÜLLER material: NMW 37099, 3 syntypes. – SMNS 2780, 90 specimens, no types; Australia, Western Australia, King George Sound; cat. entry date: 1879.

Paradules leetus Klunzinger, 1872: KLUNZINGER 1872: 21 ("Murray River; 5 cm").

Paradules laetus: KLUNZINGER 1880: 25.

Nannoperca australis Günther, 1861: KLUNZINGER 1880: 429.

= *Nannoperca australis* Günther, 1861 (according to PAXTON et al. 1989: 540).

Syntypes: **SMNS 1695**, 3 specimens, 37.3 mm, 41.6 mm and 44.5 mm SL – 43.3 mm, 44.7+ mm and 51.5 mm TL; Australia, South Australia, Murray River; MÜLLER, F. VON; cat. entry date: Aug. 1869.

Percidae

Microperca punctulata Putnam, 1863: PUTNAM 1863: 4 ("specimens from various points in Michigan, Wisconsin, Illinois, and Alabama").

= *Etheostoma microperca* Jordan & Gilbert in Jordan, 1888 (according to LEE et al. 1980: 668). Replacement name for *Microperca punctulata* Putnam, 1863, see JORDAN & GILBERT in JORDAN 1888: 134.

Syntypes of *Microperca punctulata* and *Etheostoma microperca*: **SMNS 1232**, 2 specimens, 24.9–27.8 mm SL, 29.9–33.5 mm TL; U.S.A., Wisconsin, Oconomowoc River, 43°07′N 88°37′W; AGASSIZ, A.; cat. entry date: Aug. 1864.

Remarks: According to ESCHMEYER in FROESE & PAULY (2004), *Microperca punctulata* Putnam, 1863 is subjectively invalid; it is secondarily preoccupied in *Etheostoma* by *Poecilichthys punctulatus* Agassiz, 1854; it was replaced by *Etheostoma microperca* Jordan & Gilbert, 1888.

Additional type material: MCZ 24566, 2 syntypes (ex USNM 1377, MCZ 95). – MCZ 24570, 9 syntypes (ex USNM 1283, MCZ 93). – MCZ 24582, 1 syntype (ex USNM 1294, MCZ 96). – MCZ 24690, 11 syntypes (ex USNM 1288, MCZ 94). – UMMZ 86316, 3 syntypes [poor condition] (ex USNM 1288). – MCZ 86457, 3 syntypes (ex USNM 1283). – USNM 1276, 1283, 1288, 1377; 1, 20 [now 19], 28 and 2 syntypes (1276 not found according to ESCHMEYER in FROESE & PAULY 2004).

Pleurolepis pellucidus Agassiz in Putnam, 1863: AGASSIZ in PUTNAM 1863: 5 ("Black River, below falls at Elyria, Ohio").

= *Ammocrypta pellucida* (Agassiz in Putnam, 1863) (according to LEE et al. 1980: 620).

Paralectotype: **SMNS 1243**, 1 specimen, 42.0 mm SL, 48.9 mm TL; U.S.A., Ohio, Black River, below falls at Elyria; AGASSIZ, A.; cat. entry date: Aug. 1864.

Remarks: Additional type material: USNM 1311, lectotype of *Pleurolepis pellucidus* (as designated by LINDER 1959: 182). – MCZ 24616, 9 paralectotypes (ex USNM 1311). – MCZ 24626, 4 paralectotypes. – UMMZ 86479, 1 paralectotype. – UMMZ 86489, 3 paralectotypes (ex USNM 1311 and MCZ 270). – USNM 1289 and 1295, 2 paralectotypes. – USNM 164165, 20 paralectotypes (ex USNM 1311 and MCZ 270).

Perca schrenkii Kessler, 1874: KESSLER 1874: 50, tab. 8, figs. 36–37 ("Lakes Balkhash and Alakul").

Valid (according to BERG 1966: 113).

Syntype: **SMNS 2379**, 1 specimen, 102 mm SL, 123 mm TL; Kazachstan, Tentek River, at "Alakol"/Lake Alakul; Museum St. Petersburg; cat. entry date: Jan. 1878.

Remarks: Additional type material: ZISP 2326 and 2327, 1 and 4 syntypes.

Percopsidae

Percopsis guttatus Agassiz, 1850: AGASSIZ 1850: 286–289, pl. 1, figs. 1–2 ("in great abundance at the Sault St. Mary, at Michipicotin and at Fort William").

= *Percopsis omiscomaycus* (Walbaum in Artedi, 1792) (according to JORDAN et al. 1930: 215; MCALLISTER 1990: 114).

Syntypes: SMNS 1190, 3 specimens; U.S.A., Lake Superior; AGASSIZ, L.; cat. entry date: Aug. 1864 [not found; probably lost].

Remarks: Additional type material: MCZ 6863, 6866, 21649, 26727, 34839; 95, 82, 172, 5 and 6 syntypes.

Petromyzontidae

Petromyzon wagneri Kessler, 1870: Kessler 1870: 207–214, pl. 3, figs. 4–5 ("Volga, from mouth of the Tvertsa to Astrakhan, Oka, Kama").
= *Caspiomyzon wagneri* (Kessler, 1870) (according to Holcik in Holcik 1986: 119).
Syntype: **SMNS 2398**, 1 specimen, 345 mm TL; Russia, Astrachan, 46°21′N 48°03′E; Museum St. Petersburg; cat. entry date: Jan. 1878.
Remarks: Additional type material: NMW 61053, 1 syntype. – ZISP 2407, 2 syntypes.

Platycephalidae

Platycephalus mülleri Klunzinger, 1880: Klunzinger 1880: 368, pl. 4, fig. 2 ("Australien").
= *Cymbacephalus bosschei* (Bleeker, 1860) (according to Knapp in Paxton et al. 1989: 471, as *Suggrundus bosschei*).
Holotype: **SMNS 1880**, 303 mm SL, 363 mm TL; Australia, Queensland, Port Denison, 20°15′S 148°25′E; Müller, F. von; cat. entry date: Apr. 1873.

Platycephalus speculator Klunzinger, 1872: Klunzinger 1872: 28 ("Hobson Bay; 30 cm"). Klunzinger 1880: 367–368, pl. 4, fig. 1.
Valid (according to Knapp in Paxton et al. 1989: 470).
Holotype: **SMNS 1570**, 255 mm SL, 299 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; Müller, F. von; inv. date: Oct. 1868.

Pleuronectidae

Solea uncinata Klunzinger, 1880: Klunzinger 1880: 408 ("King George's Sound; 15–20 cm").
= *Ammotretis rostratus* Günther, 1862 (according to McCulloch 1929: 280–281).
Syntypes: SMNS 2695, 4 specimens; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; Müller, F. von; cat. entry date: June 1879 [not found; probably lost].

Plotosidae

Cnidoglanis mülleri Klunzinger, 1880: Klunzinger 1880: 411 ("Port Darwin; 15 cm").
= *Paraplotosus muelleri* (Klunzinger, 1880) (according to Hutchins 2001: 21).
Holotype: **SMNS 2519**, 143.9 mm SL, 160.2 mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28′S 130°50′E; Müller, F. von; cat. entry date: 15 Mar. 1878.

Plotosus viviparus Bleeker, 1846: Bleeker 1846a: 182 ("Batavia, Java").
= *Plotosus canius* Hamilton Buchanan, 1822 (according to Weber & Beaufort 1916: 227).
Syntype: **SMNS 10624** (old catalogue number: SMNS 760 hi), 1 specimen, 160.2 mm SL, 173.2 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: RMNH 8066, 1 syntype of *Plotosus viviparus*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879. – RMNH uncat. (ex 8066), 4 specimens, no types; locality not stated; Bleeker, P.; 1879. – RMNH 15875, 6 syntypes of *Plotosus viviparus*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1879. – RMNH 15876, 1 specimen, no type; locality not stated; Bleeker, P.; 1879.

Pomacanthidae

Holacanthus douboulayi var. *longitudinaliter-striata* Klunzinger, 1880: Klunzinger 1880: 362–363 ("Port Darwin; 18 cm").
= *Chaetodontoplus duboulayi* (Günther, 1867) (according to Allen 1979: 250).
Holotype: **SMNS 2472**, 150.0 mm SL, 179.7 mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28′S 130°50′E; Müller, F. von; cat. entry date: 15 Mar. 1878.

Pomacentridae

Chromis klunzingeri Whitley, 1929: Whitley 1929: 244 ("King George Sound, Western Australia"). Based on *Heliastes hypsilepis* of Klunzinger, 1880.

Heliastes hypsilepis (non Günther, 1867): KLUNZINGER 1880: 74 ("King George's Sound; 7–9 cm").
= *Chromis klunzingeri* Whitley, 1929 (according to ALLEN 1991: 239).
Syntypes: **SMNS 2556**, 2 specimens, 72.7 mm and 78.7 mm SL, 91.4 mm and 101.8 mm TL; Australia, Western Australia, King George Sound, 35°03′S 117°57′E; MÜLLER, F. VON; cat. entry date: 4 Nov. 1878. – **SMNS 2630**, 1 specimen, 75.6 mm SL, 97.6 mm TL; same locality as SMNS 2556; MÜLLER, F. VON; cat. entry date: Mar. 1879. – **SMNS 2690**, 7 specimens, 48.6 mm, 52.7 mm, 57.5 mm, 66.9 mm, 71.5 mm, 71.7 mm and 72.5 mm SL – 59.6 mm, 63.6 mm, 70.9+ mm, 80.5+ mm, 88.2+ mm, 91.7 mm and 92.7 mm TL; same locality as SMNS 2556; MÜLLER, F. VON; cat. entry date: June 1879.

Heliastes dimidiatus Klunzinger, 1871: KLUNZINGER 1871: 529 ("6 cm; selten; nur 1 Exemplar").
= *Chromis dimidiata* (Klunzinger, 1871) (according to DOR 1984: 181; ALLEN in SMITH & HEEMSTRA 1986: 674).
Holotype: **SMNS 1765**, 39.8 mm SL, 50.1 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: May 1871.

Heliastes lividus Klunzinger, 1872: KLUNZINGER 1872: 36–37 ("Port Philip; 21 cm").
= *Parma victoriae* (Günther, 1863) (according to ALLEN 1991: 248).
Holotype: **SMNS 1716**, 165.5 mm SL, 215.4 mm TL; Australia, Victoria, Port Philip, 38°07′S 144°48′E; MÜLLER, F. VON; inv. date: Jan. 1870.
Remarks: Additional MÜLLER material: SMNS 2688, 2 specimens, no types; Australia, Western Australia, King George Sound; MÜLLER, F. VON; June 1879.

Pomacentrus sulfureus Klunzinger, 1871: KLUNZINGER 1871: 521–522 ("9 cm; nicht selten am Abhang").
Valid (according to SMITH 1960: 345; DOR 1984: 186).
Lectotype (as designated by FRICKE 1999a: 384): **SMNS 1763**, 65.5 mm SL, 81.6 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1871.
Paralectotypes: **SMNS 3526**, 4 specimens, 67.0 mm, 68.0 mm, 76.4 mm and 77.9 mm SL – 74.0+ mm, 84.5 mm, 93.4 mm and 96.6 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1894.
Remarks: Additional type material: BMNH 1871.7.15.36, 1 paralectotype. – ZISP 2550, 2556, 2 paralectotypes. – ZMB 7891, 1 paralectotype.

Pseudochromidae

Anisochromis mascarenensis Gill & Fricke, 2001: GILL & FRICKE 2001: 197–200, figs. 1, 6–7, 8B, 9–11, tab. 11 ("Réunion, west coast, Les Filaos, L'Hermitage-les-Bains, 11 km southwest of St-Paul, 21°06′16″S 5°12′38″E, lagoon reef with live corals, 0–0.5 m depth at low tide"; also Mauritius).
Valid (according to ESCHMEYER in FROESE & PAULY 2004).
Holotype: **SMNS 23037**, 23.9 mm SL; Indian Ocean, Réunion Island: W coast, Les Filaos, L'Hermitage-les-Bains, 11 km SW Saint-Paul, 21°06′16″S 5°12′38″E, coral reef: live corals, sand/gravel, few algae, few dead corals, 0–0.5 m depth at low tide; FRICKE, R., St. RE 98/13; 19 Dec. 1998.
Paratypes: **SMNS 20933**, 2 specimens, 19.7–25.5 mm SL; same locality as holotype, lagoon and reef: gravel, dead and live corals, boulders, 0–0.5 m depth at extremely low tide; FRICKE, R., St. RE 98/11; 18 Dec. 1998, 17:45–19:45 h. – **SMNS 21025**, 4 specimens, 19.7–25.2 mm SL; same locality as holotype, coral reef: live corals, sand/gravel, few algae, few dead corals, 0–0.5 m depth at low tide; FRICKE, R., St. RE 98/13; 18 Dec. 1998, 17:45–19:30 h.
Remarks: Additional type material: BMNH 2001.3.8.2, 1 paratype. – BPBM 16277, 1 paratype. – MNHN 2000-0494, 1 paratype. – USNM 364534, 1 paratype.

Pseudochromis mülleri Klunzinger, 1880: KLUNZINGER 1880: 370–371 ("Port Darwin; 6,5 cm").

= *Assiculus punctatus* (Richardson, 1846) (according to LARSON & WILLIAMS 1997: 355).
Holotype: SMNS 2579, 1 specimen; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28′S 130°50′E; MÜLLER, F. VON; cat. entry date: 4 Nov. 1878 [not found; probably lost].

Pseudochromis novaehollandiae Steindachner, 1880: STEINDACHNER 1880: 160–161 ("1 spec, Port Denis").
= *Ogilbyina novaehollandiae* (Steindachner, 1880) (according to GILL 1999: 2566).
Holotype: **SMNS 1859**, 1 specimen, 63.2 mm SL, 77.4 mm TL; Australia, Queensland, Port Denison, 20°15′S 148°25′E; MÜLLER, F. VON; cat. entry date: Aug. 1872.

Rajidae

Raja dentata Klunzinger, 1872: KLUNZINGER 1872: 46–47 ("Port Philip; 50 cm"). KLUNZINGER 1880: 429.
= *Okamejei lemprieri* (Richardson, 1845) (according to PAXTON et al. 1989: 56, as *Raja lemprieri*).
Holotype: **SMNS 1658**, 1 ♀, 500.5 mm TL; "Neuholland"/Port Philip, Victoria, Australia, 38°16′S 144°40′E; MÜLLER, F. VON; cat. entry date: May 1869.
Remarks: These specimens were first thought to be lost (FRICKE 1992b: 16), but had been misplaced and were finally found in Feb. 1995 (FRICKE 1995: 18).
The following specimen was designated as the lectotype of *Raja dentata* Klunzinger, 1872 by LAST in PAXTON et al. (1989: 56) and erroneously considered as a syntype by FRICKE (1992b: 16), but is not a syntype at all as it does not agree in its total length with the length stated by KLUNZINGER and was not available when KLUNZINGER made his description: SMNS 1816, 1 ♀, 551.5 mm TL; Australia, Victoria, Port Philip, Queens Cliff, 38°16′S 144°40′E; MÜLLER, F. VON; cat. entry date: June 1871. Therefore, LAST's lectotype designation is invalid.

Raja (Okamejei) pita Fricke & Al-Hassan, 1995: FRICKE & AL-HASSAN 1995: 3, figs. 1–2 ("Persian/Arabian Gulf at Fao, Iraq, 29°54′N, 48°25′E, 0–15 m").
= *Okamejei pita* (Fricke & Al-Hassan, 1995) (according to COMPAGNO 1999: 492).
Holotype: **SMNS 14381**; Iraq, Persian/Arabian Gulf at Fao, 29°54′N 48°25′E; AL-HASSAN, L. A.; Mar. 1992.

Scaridae

Pseudoscarus forskalii Klunzinger, 1871: KLUNZINGER 1871: 566–567 ("27 cm; nicht sehr häufig").
= *Scarus psittacus* Forsskål, 1775 (according to DOR 1984: 216).
Syntypes: **SMNS 12139** (old inventory number: SMNS 914 b), 2 specimens, 161.9 mm and 214.9 mm SL, 188.6 mm and 258.0 mm TL; "Massaua"/Mesewa, Eritrea, Red Sea, 15°38′N 39°28′E; HEUGLIN, T. VON; cat. entry date: Sep. 1861.
Remarks: Additional type material: BMNH 1871.7.15.4, 4 syntypes. – ZISP 2621, 1 syntype. – ZMB 7868, 1 syntype.

Scatophagidae

Scatophagus argus var. *ocellata* Klunzinger, 1880: KLUNZINGER 1880: 363 ("Port Darwin; 18 cm").
= *Scatophagus argus* (Bloch, 1788) (according to FRICKE 1992b: 17; LARSON & WILLIAMS 1997: 363).
Holotype: **SMNS 2611**, 149.7 mm SL, 178.3 mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28′S 130°50′E; MÜLLER, F. VON; cat. entry date: Mar. 1879.
Remarks: The family name "Scatophagidae" does not exist twice because of *Scatophaga* Meigen, 1803 (Diptera) and *Scatophagus* Cuvier in Cuvier & Valenciennes, 1831 (Pisces). Indeed, MEIGEN proposed the genus name with an "h" (*Scathophaga*), but this was soon forgotten because in all his subsequent works he used the emended spelling.

Sciaenidae

Otolithus macrophthalmus Bleeker, 1850: Bleeker 1850c: 16–17 ["Batavia, Bantam etc.; Java; (up to) 180 ''' (TL)"].
= *Pennahia anea* (Bloch, 1793) (according to Sasaki 2001: 3168).
Syntype: **SMNS 10629** (old catalogue number: SMNS 760 pd), 1 specimen, 60.1 mm SL, 180.0 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: NMV A2107, 3 specimens, no types; locality not stated; Bleeker, P.; 1879. – RMNH 8282, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 8292, 14 specimens, no types; locality not stated; Bleeker, P.; 1879.

Otolithus microdon Bleeker, 1849: Bleeker 1849b: 10 ["Madura; Samarang, Batavia(/Java)"].
= *Panna microdon* (Bleeker, 1849) (according to Sasaki 2001: 3166).
Syntype: **SMNS 10630** (old catalogue number: SMNS 760 pq), 1 specimen, 250.3 mm SL, 295.3 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: BMNH 1880.4.21.134–135, 2 specimens: specimen 1, ca. 230 mm SL, ca. 270 mm TL; specimen 2, ca. 195 mm SL, ca. 225 mm TL; locality not stated; Bleeker, P.; 1879. – RMNH 5978, 6 specimens, perhaps syntypes of *Otolithus microdon* included; locality not stated; Bleeker, P.; 1879.

Sciaena mülleri Steindachner, 1879: Steindachner 1879b: 1–3 ("Clevelandsbay, Townsville, Queensland; 1 specimen; 23 cm SL").
Sciaena (Corvina) mülleri: Klunzinger 1880: 372.
= *Nibea soldado* (Lacepède, 1802) (according to Trewavas 1977: 379).
Holotype: **SMNS 2267**, 230.1 mm SL, 274 mm TL; Australia, Queensland, Cleveland Bay, near Townsville, 19°16′S 146°48′E; Müller, F. von; cat. entry date: Apr. 1877.
Remarks: Additional Müller material: SMNS 12264, 2 specimens, no types; Australia, Queensland, Cleveland Bay, near Townsville; Müller, F. von; cat. entry date: Apr. 1877 [1 specimen lost].

Umbrina mülleri Klunzinger, 1880: Klunzinger 1880: 372–373 ("Queensland; 20 cm").
= *Johnius amblycephalus* (Bleeker, 1855) (according to Trewavas 1977: 426).
Syntypes: **SMNS 2440**, 2 specimens, 160.2 mm and 170.5 mm SL, 184.3+ mm and 194.2+ mm TL; Australia, Queensland, Endeavour Strait, 10°50′S 142°15′E; Müller, F. von; cat. entry date: Aug. 1878.

Scombridae

Cybium konam Bleeker, 1851: Bleeker 1851c: 357 ("Batavia, Java"). Bleeker 1852b: 39–40 ["Batavia; 12 specimens; 90–490 ''' (TL)"].
= *Scomberomorus commerson* (Lacepède, 1800) (according to Beaufort & Chapman 1951: 230; Dor 1984: 264).
Paralectotypes: **SMNS 10631** (old catalogue number: SMNS 817 rn), 2 specimens: specimen 1, 126.3 mm SL, 139.5 mm TL; specimen 2, 181.5 mm SL, 212.1 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: NMV 46409, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 6051, lectotype of *Cybium konam* (as designated by Boeseman 1964: 467, fig. 16). – RMNH 8471, 5 paralectotypes of *Cybium konam*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1852. – RMNH 8472, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 24087, 12 specimens, paralectotypes of *Cybium konam* included; locality not stated; Bleeker, P.; 1879. – RMNH 24088, 2 specimens, no types; locality not stated; Bleeker, P.; 1879.

Scorpaenidae

Scorpaena bandanensis Bleeker, 1851: Bleeker 1851b: 237–238 ["Banda; 1 specimen; 65 ''' (TL)"].
= *Parascorpaena bandanensis* (Bleeker, 1851) (according to Beaufort & Briggs 1962: 10).
Holotype: **SMNS 10632** (old catalogue number: SMNS 760 ak), 53.6 mm SL, 65.3 mm TL; "Banda"/Bandaneira, Maluku, Indonesia; Bleeker, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: RMNH 5861, 22 specimens, holotype not included, 67.0 mm, 49.8 mm, 47.2 mm, 41.3 mm, 40.6 mm, 39.2 mm, 36.0 mm, 35.5 mm, 35.0 mm, 34.4 mm, 34.3 mm, 33.1 mm, 31.1 mm, 30.0 mm, 29.8 mm, 29.6 mm, 29.6 mm, 28.4 mm, 27.8 mm, 26.6 mm, 25.5 mm and 24.5 mm TL; locality not stated; BLEEKER, P.; 1879.

Scorpaena polylepis Bleeker, 1851: BLEEKER 1851e: 173–174 ("W Sumatra; 11 specimens").
= *Sebastopsis polylepis* (Bleeker, 1851) (according to S. POSS, personal communication, 1989).
Syntypes: **SMNS 10633** (old catalogue number: SMNS 760 mv), 4 specimens: specimen 1, 58.8 mm SL, 74.7 mm TL; specimen 2, 39.8 mm SL, 50.7 mm TL; "Sumatra"/Sumatera, Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: AMS B.8267, 1 specimen [received from DAY]; BLEEKER, P. – BMNH 1880.4.21.136, 1 specimen; locality not stated; BLEEKER, P.; 1879 [not found during a type search in the BMNH collection in 1989]. – RMNH 5855, 10 specimens, possibly syntypes included; "Sumatra"/Sumatera, Indonesia; BLEEKER, P.

Serranidae

Anthias (Pseudanthias) gibbosus Klunzinger, 1884: KLUNZINGER 1884: 9 ("Rothes Meer").
= *Pseudanthias squamipinnis* (Peters, 1855) (according to RANDALL & PYLE 2001: 34).
Syntypes: SMNS 3482, 2 specimens; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1894 [not found; probably lost].

Anthias rasor extensa Klunzinger, 1872: KLUNZINGER 1872: 17–18 ("Hobson Bay; 2 specimens; 20 cm").
Anthias extensus: KLUNZINGER 1880: 339–340, pl. 2.
= *Caesioperca rasor* (Richardson, 1839) (according to PAXTON et al. 1989: 503).
Syntypes: **SMNS 1559** (additional old catalogue number: SMNS 1566), 2 specimens, 174.1 mm and 191.3 mm SL, 215.0 mm and 240.6 mm TL; Australia, Victoria, Hobsons Bay, 37°51′S 144°56′E; MÜLLER, F. VON; cat. entry date: Oct. 1868.
Remarks: Additional MÜLLER material: SMNS 3373, 1 specimen, no type; Australia; cat. entry date: June 1891.

Anthias (Pseudanthias) taeniatus Klunzinger, 1884: KLUNZINGER 1884: 9, pl. 3, fig. 2 ("Ich bekam über ein Dutzend dieser und der anderen Arten, aber oft verdorben, da sie meistens im Magen anderer Fische ... gefunden wurden").
= *Pseudanthias taeniatus* (Klunzinger, 1884) (according to RANDALL & PYLE 2001: 34).
Lectotype: (as designated by DOR 1984: 104): **SMNS 3447**, 54.4 mm SL, 65.9 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1894.
Paralectotypes: **SMNS 2752**, 1 specimen, 57.4 mm SL, 67.2+ mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1874. – **SMNS 12140** (ex SMNS 3447), 6 specimens, 40.7 mm, 52.2 mm, 54.3 mm, 58.0 mm, 63.6 mm and 67.0 mm SL – 50.2 mm, 62.5 mm, 66.8 mm, 71.0 mm, 78.8 mm and 78.8+ mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1894.

Serranus hoevenii Bleeker, 1849: BLEEKER 1849c: 36 ("Batavia, Java").
= *Epinephelus coeruleopunctatus* (Bloch, 1790) (according to WEBER & BEAUFORT 1931: 66; DOR 1984: 98; as *E. caeruleopunctatus*).
Syntype: **SMNS 10635** (old catalogue number: SMNS 760 hg), 1 specimen, 135.4 mm SL, 159.6 mm TL; "Java"/Indonesia; BLEEKER, P.; cat. entry date: 1860.
Remarks: Additional BLEEKER material: AMS B.8158, 1 specimen; BLEEKER, P. [received from DAY]. – BMNH 1880.4.21.5–6, 2 specimens; locality not stated; BLEEKER, P.; 1879 [specimens not found during a visit to BMNH in 1989]. – RMNH 6164, 23 specimens, 48–410 mm TL, perhaps including syntypes of *Serranus hoevenii*; locality not stated; BLEEKER, P.; 1879.

Serranus pardalis Bleeker, 1849: Bleeker 1849c: 37 ("Batavia, Java; Bima; Sumbawa").
= *Epinephelus quoyanus* (Valenciennes in Cuvier & Valenciennes, 1830) (according to Randall & Heemstra 1991: 240).
Syntypes: **SMNS 10636** (old catalogue number: SMNS 760 ae), 3 specimens: specimen 1, 140.2 mm SL, 176.8 mm TL; specimen 2, 126.6 mm SL, 157.3 mm TL; specimen 3, 107.5 mm SL, 125.3 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.

Serranus polypodophilus Bleeker, 1849: Bleeker 1849c: 37 ["Batavia, Java; (up to) 202 ''' (TL)"].
Serranus crapao Valenciennes in Cuvier & Valenciennes, 1828: Bleeker 1858a: 15.
= *Epinephelus malabaricus* (Bloch & Schneider, 1801) (according to Randall & Heemstra 1991: 194).
Syntypes: **SMNS 10637** (old catalogue number: SMNS 817 e), 2 specimens: specimen 1, 125.7 mm SL, 153.3 mm TL; specimen 2, 87.7 mm SL, 104.3 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1860.
Remarks: Additional Bleeker material: BMNH 1880.4.21.1–3, 3 specimens; locality not stated; Bleeker, P.; 1879. – RMNH 5486, 7 specimens, 125–490 mm TL, perhaps including syntypes of *Serranus polypodophilus*; locality not stated; Bleeker, P.; 1879.

Siganidae

Amphacanthus hexagonatus Bleeker, 1854: Bleeker 1854b: 41 ("Cocos").
= *Siganus punctatus* (Schneider & Forster in Bloch & Schneider, 1801) (according to Woodland 1990: 73).
Syntype: **SMNS 10638** (old catalogue number: SMNS 817 la), 1 specimen, 112.4 mm SL, 142.3 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: NMV A2109, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 6313, 4 specimens, perhaps including syntypes of *Amphacanthus hexagonatus*: specimen 1, 130 mm SL, 170 mm TL; specimen 2, 142 mm SL, 182 mm TL; specimen 3, 150 mm SL, 196 mm TL; specimen 4, 210 mm SL, 280 mm TL; locality not stated; Bleeker, P.; 1879.

Sisoridae

Pimelodus cyanochloros Bleeker, 1847: Bleeker 1847b: 11 ("Java").
= *Glyptothorax platypogon* (Valenciennes in Cuvier & Valenciennes, 1840) (according to Weber & Beaufort 1913: 264, as *Glyptosternum platypogon*).
Syntypes: **SMNS 10569** (old catalogue number: SMNS 760 nva), 6 specimens: specimen 1, 67.3 mm SL, 82.2 mm TL; specimen 2, 66.0 mm SL, 80.6 mm TL; specimen 3, 67.7 mm SL, 80.5 mm TL; specimen 4, 62.4 mm SL, 79.1 mm TL; specimen 5, 61.8 mm SL, 76.6 mm TL; specimen 6, 57.9 mm SL, 68.1 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.

Soleidae

Achirus rautheri Chabanaud, 1931: Chabanaud 1931: 95–101, figs. 1–10 ("Nordaustralien, Port Darwin").
= *Aseraggodes klunzingeri* (Weber, 1907).
Holotype: **SMNS 2521**, 60.2 mm SL, 72.3 mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28′S 130°50′E; Müller, F. von; cat. entry date: Aug. 1878.
Remarks: Also syntype of *Pardachirus klunzingeri* Weber, 1907.
Larson & Williams (1997: 374) and other authors synonymizd this species with *Pardachirus poropterus* (Bleeker, 1851) (see Eschmeyer in Froese & Pauly 2004). However, as the holotype is identical with a syntype of *Pardachirus klunzingeri* Weber, 1907, it is considered as an objective synonym of *Aseraggodes klunzingeri* (Weber, 1907).

Pardachirus klunzingeri Weber, 1907: Weber 1907: 230 ("New Guinea; Darwin"). Based in part on *Solea poropterus* (non Bleeker, 1851) of Klunzinger 1880.
Solea poropterus (non Bleeker, 1851): Klunzinger 1880: 408–409 ("Port Darwin; 7 cm").
= *Aseraggodes klunzingeri* (Weber, 1907) (according to Munroe 2001: 3881).

Syntype: **SMNS 2521**, 60.2 mm SL, 72.3 mm TL; "Port Darwin"/Darwin, Northern Territory, Australia, 12°28′S 130°50′E; MÜLLER, F. VON; cat. entry date: Aug. 1878.
Remarks: Also holotype of *Achirus rautheri* Chabanaud, 1931.
Additional type material: ZMA 109407, 1 syntype. – BMNH 1913.12.15.38–39, 2 syntypes.

Synaptura mülleri Steindachner, 1879: STEINDACHNER 1879d: 30. STEINDACHNER 1879b: 4–5 ("Clevelandsbay bei Townsville in Queensland; 1 specimen; ca. 17,5 cm TL").
= *Dexillichthys muelleri* (Steindachner, 1879) (according to SAINSBURY et al. 1985: 292).
Holotype: **SMNS 2278**, 159.3 mm SL, 179.8 mm TL; Australia, Queensland, Cleveland Bay, near Townsville, 19°16′S 146°48′E; MÜLLER, F. VON; cat. entry date: Apr. 1877.
Remarks: Additional MÜLLER material: SMNS 2454, 1 specimen; Australia, Queensland, Endeavour River; 1877.

Sparidae

Dentex (Polysteganus) coeruleopunctatus Klunzinger, 1870: KLUNZINGER 1870: 763–764 ("30–40 cm; selten").
= *Polysteganus coeruleopunctatus* (Klunzinger, 1870) (according to DOR 1984: 160; SMITH & SMITH in SMITH & HEEMSTRA 1986: 590–591).
Syntype: **SMNS 1873**, 1 specimen, ca. 215 mm SL, ca. 258 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: Feb. 1873.
Remarks: This specimen is considered as a syntype, as it was available to KLUNZINGER when he described the species in 1870. The total length of ca. 258 mm compared to a minimum of 30 cm in the original description is due to shrinking of the specimen, and its broken caudal fin.
Additional type material: ZMB 7989, 1 syntype.

Pagrus megalommatus Klunzinger, 1870: KLUNZINGER 1870: 762 ("in der Tiefe; 26 cm; selten").
= *Argyrops megalommatus* (Klunzinger, 1870) (according to DOR 1984: 158).
Holotype: **SMNS 2756**, 1 specimen, 207.5 mm SL, 245.5 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1879.
Remarks: KLUNZINGER's description was based on a single specimen (SMNS 2756). Other materials were subsequently collected.
Additional KLUNZINGER material: NMW 78714, 1 specimen, no type. – SMNS 24603, 1 skeleton, no type; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1879 [not found; probably lost]. – ZMB 7871, 1 specimen, no type.

Sphyraenidae

Sphyraena chrysotaenia Klunzinger, 1884: KLUNZINGER 1884: 128, 129, pl. 9, fig. 3 ("Gemein im Hafen, bei Nacht mehr draussen auf der Rhede, in Schwärmen auf der Oberfläche des Meeres hüpfend").
Valid (according to DOR 1984: 194; SYLVA & WILLIAMS in SMITH & HEEMSTRA 1986: 723).
Syntypes: **SMNS 2073**, 4 specimens, 184.5 mm, 199.0 mm, 201.0 mm and 207.0 mm SL – 204.5 mm, 219+ mm, 222+ mm and 225.0 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: 1876.
Remarks: Additional type material: NMW 77364, 3 syntypes. – ZMB 10577 and 10578, 2 syntypes.
Additional KLUNZINGER material: SMNS 3451, 2 specimens, no types; "Kosseir"/Al-Qusayr, Egypt, Red Sea; KLUNZINGER, C. B.; 1894.

Sternoptychidae

Maurolicus mucronatus Klunzinger, 1871: KLUNZINGER 1871: 593–594 ("4 cm; nicht selten; im Hafen").
Valid (according to PARIN & KOBYLIANSKY 1993: 101).
Syntypes: SMNS 1774, 5 specimens; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; KLUNZINGER, C. B.; cat. entry date: May 1871 [probably lost].

Remarks: Entry in the old SMNS inventory: "verdorben" [discarded; around 1910–1920]. Additional type material: ZMB 8060, 1 syntype.

Stomiidae

Astronesthes martensii Klunzinger, 1871: Klunzinger 1871: 594–595 ("15 cm; selten").
Valid (according to Dor 1984: 45; Gibbs in Smith & Heemstra 1986: 232).
Syntypes: **SMNS 1776**, 2 specimens, 100.5 mm and 102.4 mm SL, 110.5+ mm and 113.1 mm TL; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: May 1871.
Remarks: Additional type material: BMNH 1871.7.15.33, 1 syntype. – ZISP 2620 and 2633, 2 syntypes. – ZMB 8061, 1 syntype.

Myxus trimaculatus Klunzinger, 1870: Klunzinger 1870: 832 ("1,5–2 cm").
= *Astronesthes martensii* Klunzinger, 1871 (identified by Paxton, J., 25 Apr. 1975).
Syntypes: **SMNS 1749**, 2 specimens; "Kosseir"/Al-Qusayr, Egypt, Red Sea, 26°06′N 34°17′E; Klunzinger, C. B.; cat. entry date: May 1871.
Remarks: Additional type material: ZMB 8000, 4 syntypes. – ZISP 2603, 2 syntypes.

Stromateidae

Stromateoides atokoia Bleeker, 1851: Bleeker 1851c: 369 ["Batavia, Samarang, Rembang, Surabaja; Java; 10 specimens; 75–210 ‴ (TL)"].
= *Pampus chinensis* (Euphrasen, 1788) (according to Weber & Beaufort 1922: 94).
Syntype: **SMNS 10639** (old catalogue number: SMNS 817 cd), 1 specimen, 63.9 mm SL, 75.0 mm TL; "Indischer Archipel"/Indonesia; Bleeker, P.; cat. entry date: 1861.
Remarks: Additional Bleeker material: RMNH 6067, 12 specimens, perhaps syntypes of *Stromateoides atokoia* included; locality not stated; Bleeker, P.; 1879. – RMNH 8122, 13 specimens, no types; locality not stated; Bleeker, P.; 1879. – RMNH 8123, 3 syntypes of *Stromateoides atokoia*; "Batavia, Java"/Jakarta, Java, Indonesia; Bleeker, P.; 1852.

Syngnathidae

Corythoichthys albirostris Heckel in Kaup, 1856: Heckel in Kaup 1856: 25 ("Bahia").
= *Cosmocampus albirostris* (Heckel in Kaup, 1856) (according to Dawson 1982: 121).
Syntypes: SMNS 24579, 2 specimens; Brazil, Bahia/São Salvador; Moricand; 1853 [not found on 1 Mar. 2005].
Remarks: Additional type material: BMNH 1978.9.12.4, 1 syntype. – NMW uncat., 1 syntype [not found in 1995 according to Eschmeyer in Froese & Pauly 2004].

Festucalex kulbickii Fricke, 2004: Fricke 2004: 25–27, fig. 12 ("New Caledonia, Grande Terre, Province Sud, Grande Rade, 22°14′04″N 166°24′01″E, 2 m depth"; also Chesterfield Islands, Provinces Nord and Sud of Grande Terre, New Caledonia).
Valid.
Paratypes: **SMNS 21755**, 1 ♀, 57.8 mm SL; East Coral Sea, Chesterfield Islands, eastern lagoon, 19°25′00″S 158°24′48″E, 56 m depth; Richer de Forges, B. & R/V 'Coriolis', Cruise CORAIL 2, St. DW.119; 28 July 1988. – **SMNS 21764**, 1 ♀, 51.0 mm SL; New Caledonia, Grande Terre, Province Sud, SW Baie de Prony, 43 km ESE Nouméa, 22°23′04″S 166°49′04″E, 37 m depth; Richer de Forges, B. & R/V 'Vauban', St. 114; 22 Aug. 1984. – **SMNS 21770**, 1 ♀, 58.2+ mm SL; New Caledonia, Grande Terre, Province Sud, reef 15 km S Île Ouen, Grand Récif Sud, 22°36′30″S 166°50′30″E, 16–17 m depth; Richer de Forges, B. & R/V 'Vauban', St. 302; 24 Nov. 1984. – **SMNS 21774**, 1 ♀, 59.4 mm SL; New Caledonia, Grande Terre, Province Sud, 9 km SE Île aux Goelands, 22°26′00″S 166°26′03″E, 20 m depth; Richer de Forges, B. & R/V 'Vauban', St. 63; 20 Aug. 1984. – **SMNS 21777**, 1 ♀, 63.8 mm SL; New Caledonia, Grande Terre, Province Sud, Île Atire, SW lagoon, 22°32′04″S 166°34′04″E, 15 m depth; Richer de Forges, B. & R/V 'Vauban', St. 100; 21 Aug. 1984. – **SMNS 21779**, 1 ♀, 52.1 mm SL; New Caledonia, Grande Terre, Province Nord, Passe de Canala, 34 km E Houailou, E lagoon, 21°18′36″S 165°56′00″E, 41–43 m depth; Richer de Forges, B. & R/V 'Vauban', St. 725; 12 Aug. 1986. – **SMNS 21780**, 1 ♂, 63.5 mm SL; New Caledonia, Grande Terre, Province Nord, 19 km NNE Canala, E lagoon, 21°24′00″S 166°02′30″E, 30–31 m depth; Richer

DE FORGES, B. & R/V 'Vauban', St. 710; 10 Aug. 1986. – **SMNS 21781**, 1 ♀, 51.5 mm SL; New Caledonia, Grande Terre, Province Nord, 16 km E Houailou, E lagoon, 21°19′42″S 165°57′48″E, 36–38 m depth; RICHER DE FORGES, B. & R/V 'Vauban', St. 724; 12 Aug. 1986. – **SMNS 21791**, 1 ♂, 51.8 mm SL; New Caledonia, Grande Terre, Province Sud, 22°23′36″S 166°47′54″E, 42 m depth; RICHER DE FORGES, B. & R/V 'Vauban', St. 112; 22 Aug. 1984. – **SMNS 21792**, 1 specimen, 52.0 mm SL; New Caledonia, Grande Terre, Province Sud, 18 km SSE Nouméa, SW lagoon, 22°22′48″S 166°31′42″E, 13 m depth; RICHER DE FORGES, B. & R/V 'Vauban', St. 69; 20 Aug. 1984.

Remarks: Additional type material: MNHN 2004-2023, holotype (ex SMNS 21768). – AMS I.38050-003, 1 paratype. – IRDNC uncat., 1 paratype. – USNM 378952, 1 paratype.

Gastrotokeus gracilis Klunzinger, 1872: KLUNZINGER 1872: 44–45 ("Port Philip; 12 cm").

Stigmatopora argus (Richardson, 1840): KLUNZINGER 1880: 420 ("Port Philip, Port Darwin").

= *Stigmatophora argus* (Richardson, 1840) (according to DAWSON 1985: 176; PAXTON et al. 1989: 430).

Syntypes: **SMNS 1809**, 4 specimens, 97.5+ mm, 99.8+ mm, 107+ mm and 115.5 mm TL; Australia, Victoria, Port Philip, Queens Cliff, 38°16′S 144°40′E; MÜLLER, F. VON; cat. entry date: June 1871.

Hippocampus pusillus Fricke, 2004: FRICKE 2004: 37–39, fig. 18 ["Lifou Island, Baie du Santal, W of Récif Shelter, off Pointe Lefèvre, 20°53′55″S 167°02′31″E – 20°54′18″S 167°01′47″E, coral gravel, coralline rocks and corals, 75–120 m depth (mostly 80 m depth)"; also New Caledonia, Grande Terre, Province Nord].

Valid.

Paratype: **SMNS 23384**, 1 ♂, 32.9 mm body height; Loyalty Islands, Lifou Island, Baie du Santal, off Notre-Dame de Lourdes, 4 km WSW Xepenehe, 20°47′04″S 167°06′30″E, 35–45 m depth; RICHER DE FORGES, B. & R/V 'Alis', Cruise LIFOU 2000, St. 42 (= RF 00 NC 32); 16 Nov. 2000.

Remarks: Additional type material: MNHN 2004-2029, holotype (ex SMNS 23386). – MNHN 2002-3234, 1 paratype.

Micrognathus brevicorpus Fricke, 2004: FRICKE 2004: 42–46, fig. 21 ("New Caledonia, Grande Terre, Province Sud, Île Sainte-Marie, 22°17′26″S 166°27′36″E, 1–3 m depth, fringing reef").

Valid.

Paratypes: **SMNS 21750**, 2 specimens, 60.8–73.2 mm SL; New Caledonia, Grande Terre, Province Sud, Île Sainte-Marie, 22°17′26″S 166°27′36″E, 1–3 m depth, fringing reef; M. KULBICKI; 9 Apr. 1999.

Remarks: Additional type material: MNHN 2004-2030, holotype. – AMS I.18446-001 and I.38050-004–005, 1 and 2 paratypes.

Siokunichthys striatus Fricke, 2004: FRICKE 2004: 54–56, fig. 27 ("New Caledonia, Grande Terre, Province Sud, Sêche Croissant Reef, 22°20′00″S 166°22′18″E, 2 m depth, *Sargassum* on rocky substrate").

Valid.

Remarks: Additional type material: MNHN 2004-2035, holotype (ex SMNS 21748).

Syngnathoides blochii Bleeker, 1851: BLEEKER 1851b: 231, 259 ["Banda-eilanden; 5 specimens; 170–190 ‴ (TL)"].

= *Syngnathoides biaculeatus* (Bloch, 1785) (according to DAWSON 1985: 181).

Syntype: **SMNS 10640** (old catalogue number: SMNS 760 mki), 1 specimen, 181.5 mm TL; "Banda"/Bandaneira, Maluku, Indonesia; BLEEKER, P.; cat. entry date: 1860.

Remarks: Additional BLEEKER material: BMNH 1867.11.28.354, 1 specimen; locality not stated; BLEEKER, P.; 1879.

Syngnathus boaja Bleeker, 1851: BLEEKER 1851d: 16 ["Banjermassing, Borneo, in fluviis; 1 specimen; 370 ‴ (TL)"].

= *Doryichthys boaja* (Bleeker, 1851) (according to DAWSON 1985: 55).

Holotype: SMNS 24578 (old catalogue number: SMNS 760 ft), 1 specimen; "Borneo"/Kalimantan, Indonesia; Bleeker, P.; cat. entry date: 1860 [not found; probably lost during World War II].

Remarks: Additional Bleeker material [holotype not included, not the right size]: BMNH 1867.11.28.343, 1 specimen; Bleeker, P. – MNHN 6057, 1 specimen; Bleeker, P. – NMV A851, 1 specimen; Bleeker, P. – RMNH 7241, 4 specimens; Bleeker, P. – ZMA 115986, 1 specimen; Bleeker, P.

Syngnathus caretta Klunzinger, 1880: Klunzinger 1880: 419 ("Port Philip; 10 cm").

Syngnathus modestus (non Günther, 1870): Klunzinger 1872: 44.

= *Pugnaso curtirostris* (Castelnau, 1872) (according to Dawson 1985: 163; Paxton et al. 1989: 428).

Holotype: **SMNS 1810**, 92+ mm TL; Australia, Victoria, Port Philip, Queens Cliff, 38°16′S 144°40′E; Müller, F. von; inv. date: June 1871.

Tetraodontidae

Tetraodon leiurus Bleeker, 1851: Bleeker 1851g: 97 ["Batavia, Java; 5 specimens; 60–98 ‴ (TL)"].

= *Monotretus leiurus* (Bleeker, 1851) (according to Kottelat 1998: 120).

Syntypes: **SMNS 10641** (old catalogue number: SMNS 760 gb), 2 specimens: specimen 1, 73.3 mm SL, 91.1 mm TL; specimen 2, 56.6 mm SL, 68.6 mm TL; "Java"/Indonesia; Bleeker, P.; cat. entry date: 1860.

Remarks: Additional Bleeker material: BMNH 1867.11.28.110, 1 specimen, 91.3 mm SL, 109.5 mm TL; locality not stated; Bleeker, P.; 1867. – NMV 46396, 1 specimen, no type; locality not stated; Bleeker, P.; 1879. – RMNH 7342, 2 syntypes of *Tetraodon leiurus*, 93.5 mm and 90.7 mm TL; locality not stated; Bleeker, P.; 1879. – RMNH uncat. (ex 7342), 1 specimen, 56.3 mm TL, no type; locality not stated; Bleeker, P.; 1879. – ZMA 102308, 1 specimen; Bleeker, P.

Trichomycteridae

Trichomycterus brasiliensis Reinhardt in Lütken, 1874: Reinhardt in Lütken 1874: 29 ("Hab. in Rio das Velhas et affluentibus").

Valid (according to Pinna & Wosiacki in Reis et al. 2003: 280).

Syntype: **SMNS 2021**, 1 specimen, 114.3 mm SL, 130.4 mm TL; Brazil, State Minas Gerais, Rio das Velhas, at Lagoa Santa, 19°38′S 43°53′W; Reinhardt, J.; cat. entry date: Jan. 1876.

Remarks: Additional type material: NMW 85270, 3 syntypes. – ZMB 9121, 2 syntypes. – ZMUC 103, 108–109, 114, 116, 119–121, 123–127, 13 syntypes.

Triglidae

Pterygotrigla spirai Golani & Baranes, 1997: Golani & Baranes 1997: 187, figs. 2–4 ("Israel, Elat, Gulf of Elat, Red Sea, 350 m").

Valid (according to Eschmeyer in Froese & Pauly 2004).

Paratype: **SMNS 16811**, 1 specimen; Israel, Red Sea, Gulf of Elat/Eilat/Aqaba, Elat/Eilat, 29°33′N 34°56′E, 250 m depth; Waller, G. & Baranes, A.; 20 Aug. 1990.

Remarks: Additional type material: HUJF 18087, holotype. – AMS I.36612-001, 1 paratype. – BMNH 1997.1.2.1, 1 paratype. – BPBM 36793, 1 paratype. – CAS 82478, 1 paratype. – FMNH 105221, 1 paratype. – HUJF 11396, 13728, 13956, 13957, 13960, 14002, 17577, 17578, 18062; 1, 1, 2, 1, 3, 8, 2, 3 and 2 paratypes. – MNHN 1995-1000, 1 paratype. – SAIAB 53796, 1 paratype. – USNM 343800, 1 paratype.

Tripterygiidae

Apopterygion oculus Fricke & Roberts in Fricke, 1994: Fricke & Roberts in Fricke 1994b: 118–122, fig. 13 ["New Zealand: North and South Island, Stewart Island, Chatham Rise (Mernoo Bank) and Auckland Islands; depths of 14–186 m"].

Valid (according to Fricke 1997: 561).

Paratypes: **SMNS 24580**, 3 specimens; New Zealand, Stewart Island, Paterson Inlet; Richardson, J. R.; 7–14 Feb. 1977.

Remarks: Additional type material: NMNZ P.23969, holotype. – AMS uncat., 3 paratypes. – BMNH uncat., 3 paratypes. – NMNZ P.1221, P.7091, P.7309, P.7310, P.18870, P.23970, P.25072, P.25261, P.25262, P.25303, P.25331 to P.25334, P.25336, P.25338, P.25349, P.25620 to P.25622, P.30188, uncat.; 6, 1, 1, 8, 1, 2, 1, 1, 1, 7, 4, 5, 13, 3, 3, 2, 2, 3, 1, 1 and 6 paratypes. – USNM uncat., 3 paratypes.

Enneapterygius bahasa Fricke, 1997: Fricke 1997: 170–176, fig. 29, tabs. 20–25 ("Australia, Queensland, Heron Island, 23°26′S 151°5′E, reef crest"; also Indonesia; Philippines; Taiwan; Papua New Guinea; Republic of Palau; Guam).

Valid (according to Williams & Fricke 2001: 3534; Allen & Adrim 2003: 53).

Paratypes: **SMNS 15934**, 3 specimens, 11.0–16.0 mm SL; Indonesia, N Sulawesi Province, Celebes Sea, NW corner of Lembeh Island, small coves on Lembeh Strait side, 9 km NE Bitung, 60 km E Manado, 1°40′N 125°20′E, vertical rocky shore encrusted with red sponges in channel to NE side of N tip of island, 0.1–0.5 m depth; Fricke, R., St. RF 94 IN 04b; 25 Nov. 1994, 16:35–17:25 h CIT. – **SMNS 15955**, 2 specimens, 13.9–16.7 mm SL; same locality as SMNS 15934, 0–0.5 m depth; Fricke, R., St. RF 94 IN 06; 27 Nov. 1994, 08:30–11:15 h CIT. – **SMNS 18695**, 2 specimens, 19.2–20.2 mm SL; Indonesia, point E of Tandjung Naira, Haruku Island, Maluku, 3°34′S 128°30′E, 5 m depth; Springer, V. G. & Gomon, M. F.; 15 Jan. 1973.

Remarks: Additional type material: USNM 259168, holotype. – USNM 259129, 209582, 344075, 344087; 31, 53, 3 and 1 paratypes.

Enneapterygius bichrous Fricke, 1994: Fricke 1994b (5 Sep.): 195–202, fig. 30 ("Western Australia north of 21° S, Northern Territory, Queensland north of 16° S, Coral Sea, New Caledonia, Loyalty Islands, Sulawesi/Indonesia, Papua New Guinea; at depths of 1–22 m").

= *Enneapterygius flavoccipitis* Shen & Wu 1994: Shen & Wu 1994: 8–11, fig. 6, tab. 2 (due to priority of publication date 31 July, according to Fricke 1997: 199, 567; Fricke 2002b: 184).

Paratype: **SMNS 15356**, 1 specimen; Australia, Northern Territory, New Year Island, W side, 10°55′S 133°01′E, 5 m depth; Larson, H. K.; 13 Oct. 1982.

Remarks: Additional type material: NTM S.10600-032, holotype. – AMS I.20756-011, I.21318-052, I.21963-001, I.22732-007, I.33724-026; 8, 5, 1, 3 and 1 paratypes. – NTM S.10011-018, S.10012-026, S.10432-026, S.10454-026, S.10585-003, S.10587-015, S.10591-024, S.10598-021, S.10600-043, S.10605-038, S.10605-039, S.11253-014, S.11371-066, S.11450-007; 4, 1, 1, 9, 1, 84, 9, 1, 3, 31, 1, 1, 1 and 1 paratypes. – ROM 65513, 65515, 65516, 6797; 1, 2, 6 and 2 paratypes. – WAM P.27663-025, P.28025-039, P.28031-029, P.29048-008, P.29054-012, P.29624-077; 1, 13, 1, 2, 1 and 4 paratypes.

Enneapterygius clea Fricke, 1997: Fricke 1997: 176–179, fig. 30 ("Australia, Queensland, Cooktown area, Escape Reef North, 15°49′S 145°50′E, surge channel, 5 m depth").

Valid (according to Williams & Fricke 2001: 3534).

Paratypes: **SMNS 19120**, 2 specimens, 21.1–21.7 mm SL; Australia, Queensland, Cooktown area, Escape Reef North, 15°49′S 145°50′E, surge channel, 5 m depth; Starck, J. W.; 16 Dec. 1980.

Remarks: Additional type material: AMS I.22600-056, holotype. – AMS I.22600-069, 21 paratypes.

Enneapterygius fuscoventer Fricke, 1997: Fricke 1997: 210–212, fig. 38 ["Philippines, Palawan Province, Putic Island, NW side (Cuyo Island), 10°55′05″N 121°02′03″E, 0–4.5 m depth"; also Taiwan; Papua New Guinea; Rotuma; American Samoa; Society Islands].

Valid (according to Fricke & Williams 2000: 632; Williams & Fricke 2001: 3534).

Paratypes: **SMNS 19172**, 2 specimens, 21.4–22.2 mm SL; Philippines, Palawan Province, Putic Island, NW side (Cuyo Island), 10°55′05″N 121°02′03″E, 0–4.5 m depth; Springer, V. G. et al.; 22 May 1978.

Remarks: Additional type material: USNM 259131, holotype. – USNM 259136, 293711, 295566, 345509; 1, 1, 9 and 15 paratypes.

Enneapterygius gracilis Fricke, 1994: Fricke 1994b: 209–214, fig. 34 ("Western Australia, Northern Territory, Queensland; depths of 0.2–15 m").
Valid (according to Fricke 1997: 567; Williams & Fricke 2001: 3534).
Paratypes: **SMNS 14205**, 1 ♂, 19.5 mm SL; Australia, Western Australia, Exmouth Gulf, at Exmouth, town beach, 3 km SE Exmouth town centre, 21°55′S 114°08′E, 0.6–1.8 m depth; Fricke, R.; 25 Aug. 1992. – **SMNS 14552**, 6 specimens, 21.7–27.7 mm SL; Australia, Western Australia, Beadon Point, at Onslow, Pilbara, 21°39′S 115°08′E, intertidal pools; Fricke, R.; 17 Sep. 1992. – **SMNS 14612**, 8 specimens, 22.2–26.2 mm SL; same locality as SMNS 14552; Fricke, R.; 20 Sep.1992.
Remarks: Additional type material: NTM S.10431-027, holotype. – AMS I.17060-043 and IB.7075, 6 and 1 paratypes. – NTM S.10005-027, S.10011-013, S.10415-027, S.10417-028, S.10431-034, S.10603-031, S.28060-016, S.28417-025; 1, 1, 1, 2, 1, 1, 5 and 7 paratypes. – USNM 279864, 1 paratype. – WAM P.27274-041, 17 paratypes.

Enneapterygius howensis Fricke, 1997: Fricke 1997: 224–227, fig. 42 ("Lord Howe Island, S end of middle beach, 31°32′S 159°04′E, 0–3 m depth").
Valid (according to Williams & Fricke 2001: 3534; Fricke 2002b: 185).
Paratypes: **SMNS 19121**, 2 specimens, 27.0–30.4 mm SL; Lord Howe Island, S end of middle beach, 31°32′S 159°04′E, 0–3 m depth; AMS party; Feb. 1973.
Remarks: Additional type material: AMS I.17368-036, holotype. – AMS I.5916 and I.17368-053, 2 and 10 paratypes.

Enneapterygius kermadecensis Fricke, 1994: Fricke 1994b: 230–234, fig. 42 ("Kermadec Islands; tidal pools").
Valid (according to Fricke 1997: 227).
Paratypes: **SMNS 24581**, 5 specimens; Kermadec Islands, Meyer Island, 29°14.9′S 177°52.2′W, rock pool, 0–2 m depth; Francis, M. P.; 2 June 1992.

Enneapterygius larsonae Fricke, 1994: Fricke 1994b: 235–241, figs. 44–45 ("Western Australia, Northern Territory, Queensland, Papua New Guinea; 0.1–12 m depth").
Valid (according to Fricke 1997: 230, 568).
Paratypes: **SMNS 14215**, 2 ♂♂, 24.5–25.8 mm SL; Australia, Western Australia, Exmouth Gulf, at Exmouth, town beach, 3 km SE Exmouth town centre, 21°55′S 114°08′E, 0.6–1.8 m depth; Fricke, R.; 26 Aug. 1992. – **SMNS 14575**, 3 specimens, 29.9–30.8 mm SL; Australia, Western Australia, Beadon Point, at Onslow, Pilbara, 21°39′S 115°08′E, intertidal pools; Fricke, R.; 19 Sep. 1992. – **SMNS 14611**, 5 ♂♂, 28.2–29.2 mm SL; same locality as SMNS 14575; Fricke, R.; 20 Sep. 1992. – **SMNS 14657**, 3 ♂♂, 34.5–34.8 mm SL; Australia, Western Australia, Eagle Bluff, 22 km SSE Denham, Shark Bay, 26°08′S 113°33′E, 0.5–2 m depth; Fricke, R.; 26 Sep. 1992.
Remarks: Additional type material: NTM S.10809-026, holotype. – NTM S.10004-042, S.10461-003, S.10809-035, S.10814-036; 1, 1, 25 and 7 paratypes. – WAM P.25308-014, P.25317-011, P.26668-011, P.28416-029, P.29042-027, P.29883-004, P.29884-015, P.29887-006; 1, 2, 5, 2, 2, 1, 1 and 1 paratypes.

Enneapterygius namarrgon Fricke, 1997: Fricke 1997: 240–242, fig. 48 ("Australia, Northern Territory, Gove Peninsula, S of Cape Arnhem, rock, sand, brown algae bottom, 5 m depth").
Valid (according to Williams & Fricke 2001: 3534).
Paratypes: **SMNS 19119**, 2 specimens, 23.2–25.5 mm SL; Australia, Northery Territory, Gove Peninsula, S of Cape Arnhem, 12°22′S 136°21′E, rock, sand, brown algae bottom, 5 m depth; Paxton, J. R. & Blake, D.; 25 Nov. 1980.
Remarks: Additional type material: AMS I.21961-014, holotype. – AMS I.21961-028, 15 paratypes.

Enneapterygius niger Fricke, 1994: Fricke 1994b: 259–263, fig. 51 ("New Caledonia; 0.5–15 m depth").
Valid (according to Fricke 1997: 248, 569; Fricke 2002b: 186–187).
Paratypes: **SMNS 13207**, 2 specimens, 25.4–26.3 mm SL; New Caledonia, Grande Terre, Baie de Saint-Vincent, 21°57′24″S 165°59′54″E, 2–8 m depth; M. Kulbicki & R/V 'Alis';

30 Mar. 1989. – **SMNS 13208**, 2 specimens, 25.7–27.0 mm SL; same locality as SMNS 13207, 2 m depth; M. KULBICKI & R/V 'Alis'; 22 Mar. 1990.

Remarks: Additional type material: MNHN 1997-0430, holotype. – AMS IA.2954 and IB.4779, 9 and 1 paratypes. – MNHN uncat., 3 paratypes. – NMNZ P.29472, P.29517, P.29558, P.29587, P.29606, P.29608; 1, 1, 1, 8, 1 and 4 paratypes. – ROM 65507, 65508, 65510, 65514, 65523; 10, 8, 3, 2 and 1 paratypes. – USNM 323779, 14 paratypes.

Enneapterygius nigricauda Fricke, 1997: FRICKE 1997: 255–261, fig. 52, tabs. 63–68 ("Tonga, Tongatapu Group, E'ua Island, fringing reef at base of cliff on NW shore, 21°18′15″S 174°26′20″W, rocky surge channels, spur and groove right in the surge zone, 0–11 m depth"; also Kiribati/Phoenix Islands; Jarvis Island; Wake Island; Marshall Islands; Bonin/Ogasawara Islands; Taiwan; Philippines; Vanuatu; American Samoa; Society Islands; Line Islands; Howland Island; Federated States of Micronesia; Guam; Commonwealth of the Northern Marianas).

Valid (according to FRICKE & WILLIAMS 2000: 632; WILLIAMS & FRICKE 2001: 3534).

Paratypes: **SMNS 18697**, 4 specimens, 21.2–24.6 mm SL; Tonga, Tongatapu Group, E'ua Island, fringing reef at base of cliff on NW shore, 21°18′15″S 174°26′20″W, rocky surge channels, spur and groove right in the surge zone, 0–11 m depth; WILLIAMS, J. T. et al., St. JTW 93-18; 3 Nov. 1993.

Remarks: Additional type material: USNM 331035, holotype. – BPBM 15516, 29097, 35222; 7, 14 and 2 paratypes. – CAS 49701, 10 paratypes. – USNM 115526, 142259, 297859, 331031, 343062, 344093, 344097; 30, 1, 27, 51, 3, 36 and 55 paratypes.

Enneapterygius ornatus Fricke, 1997: FRICKE 1997: 262–264, fig. 53 ("Henderson Island, $^1/_2$ mile S of NW corner of island, rocky shore with small sand pockets, 0–1 m depth").

Valid (according to WILLIAMS & FRICKE 2001: 3534).

Paratypes: **SMNS 21881**, 2 specimens; Henderson Island, $^1/_2$ mile S of NW corner of island, 24°22′S 128°19′W, rocky shore with small sand pockets, 0–1 m depth; RANDALL, J. E., CANNOY, D. B. & BRYANT, D.; 17 Jan. 1971.

Remarks: Additional type material: BPBM 17081, holotype. – BPBM uncat., 14 paratypes.

Enneapterygius pallidoserialis Fricke, 1997: FRICKE 1997: 264–271, figs. 54–55, tabs. 69–74 ["Philippines, Palawan Province, Putic Island, NW side (Cuyo Island), 10°55′05″N 121°02′03″E, 0–4.5 m depth"; also Japan; Philippines; Taiwan; Malaysia; Vanuatu; Federated States of Micronesia].

Valid (according to FRICKE & WILLIAMS 2000: 632; WILLIAMS & FRICKE 2001: 3534).

Paratypes: **SMNS 19171**, 2 specimens, 21.8–23.7 mm SL; Philippines, Palawan Province, Putic Island, NW side (Cuyo Island), 10°55′05″N 121°02′03″E, 0–4.5 m depth; SPRINGER, V. G. et al.; 2 May 1978.

Remarks: Additional type material: USNM 279812, holotype. – USNM 227494, 258845, 259354, 259355, 287086, 345513; 1, 89, 1, 3, 7 and 218 paratypes.

Enneapterygius paucifasciatus Fricke, 1994: FRICKE 1994b: 264–266, fig. 52 ("New Caledonia; 2–4 m depth").

Valid (according to FRICKE 2002b: 187).

Paratype: **SMNS 13868**, 1 ♀, 24.3 mm SL; New Caledonia, Grande Terre, Baie de Saint-Vincent, 22°01′06″S 165°55′30″E; M. KULBICKI & R/V 'Alis'; 31 Mar. 1989.

Remarks: Additional type material: MNHN 1997-0433, holotype. – BPBM 34312, 1 paratype.

Enneapterygius rhothion Fricke, 1997: FRICKE 1997: 304–310, fig. 64, tabs. 93–98 ("New Caledonia, Grande Terre, Touaourou, 6 km SE Yaté, 22°10′36″S 166°57′51″E, fringing reef exposed at low tide, soft and hard corals and coralline rock, 0–0.6 m depth"; also Loyalty Islands; Vanuatu; Chesterfield Islands).

Valid (according to FRICKE 2002b: 188–189).

Holotype: **SMNS 18322**, 1 specimen, 29.1 mm SL; New Caledonia, Grande Terre, Touaourou, 6 km SE Yaté, 22°10′36″S 166°57′51″E, fringing reef exposed at low tide, soft and hard corals and coralline rock, 0–0.6 m depth; FRICKE, R.; 26 July 1996.

Paratypes: **SMNS 18698**, 1 ♀, 23.8 mm SL; Vanuatu, Dillon's Bay, Erromango Island, 18°49′39″S 169°00′23″E, tide pool on SW side of bay along Williams Point, 0–1 m depth; WILLIAMS, J. T. & M/V 'Lewia'; 25–26 May 1996. – **SMNS 18773**, 7 specimens, 24.1–28.3 mm SL; New Caledonia, Grande Terre, Province Sud, Seche Croissant Reef, 22°02′00″S 166°02′12″E, 2 m depth; KULBICKI, M.; 1 Aug. 1996. – **SMNS 18776**, 1 specimen, 28.7 mm SL; New Caledonia, Grande Terre, Province Sud, Récif Ricaudi, 22°01′54″S 16°02′45″E, 3 m depth; KULBICKI, M.; 1 Mar. 1996.

Remarks: Additional type material: USNM 297838, 323778, 323781, 343892; 4, 5, 4 and 4 paratypes.

Enneapterygius signicauda Fricke, 1997: FRICKE 1997: 322–326, fig. 67, tabs. 105–110 ("Vanuatu, Tanna Island, Waisisi, small cave about 600 m N of village, 19°28′22″S 169°23′58″E, 0–7 m depth"; also Tonga; American Samoa).

Valid (according to WILLIAMS & FRICKE 2001: 3534).

Paratype: **SMNS 19173**, 1 specimen, 22.7 mm SL; Vanuatu, Tanna Island, Waisisi, small cave about 600 m N of village, 19°28′22″S 169°23′58″E, 0–7 m depth; WILLIAMS, J. T., SMITH, D. G., WESTNEAT, M. W., MCGROUTHER, M. A. & TAIFORD, H.; 31 May 1996.

Remarks: Additional type material: USNM 344013, holotype. – USNM 331036, 344006, 344008, 344015; 7, 2, 1 and 1 paratypes.

Enneapterygius similis Fricke, 1997: FRICKE 1997: 326–330, fig. 68 ("Philippines, Batanes Province, Ibahos Island, W side, N end, 20°20′10″N 121°49′10″E, surge channel at edge of rock platform, spotty coral, bottom sand and encrusted rock, 2–5 m depth"; also Malaysia; Indonesia; Queensland, New South Wales/Australia; Grande Terre/New Caledonia; Vanuatu).

Valid (according to FRICKE 2002b: 190).

Paratypes: **SMNS 14837**, 8 specimens, 10.4–29.5 mm SL; Australia, Queensland, Magnetic Island, Alma Bay, 30 km NE Townsville, 18°59′30″S 146°55′00″E, rocks, gravel, mud, corals, brown algae, crevices, tidal pools and 0–0.5 m depth at low tide; FRICKE, R., St. RF 93 AU 13; 1 June 1993. – **SMNS 14863**, 13 specimens, 19.8–26.2 mm SL; Australia, Queensland, Magnetic Island, Fish Cove, 1.3 km NE Alma Bay, 21 km NE Townsville, N side of bay, 18°59′00″S 146°55′20″E, 0–3 m depth and small tidal pools at extremely low tide; FRICKE, R., St. RF 93 AU 14; 3 June 1993, 13:30–15:00 h. – **SMNS 17854**, 1 specimen, 24.0 mm SL; New Caledonia, Grande Terre, Province, Sud, off SE barrier reef, 21°47′24″S 16°47′42″E, 2 m depth; MOU-THAM, G. & R/V 'Dawa'; 18 Mar. 1993. – **SMNS 18699**, 2 specimens, 22.8–23.7 mm SL; Philippines, Ibahos Island, Batanes Province, W side, N end, 20°20′10″N 121°49′10″E, surge channel at edge of rock platform, spotty coral, bottom sand and encrusted rock, 2–5 m depth; JOHNSON, G. D. & SMITH-VANIZ, W. F.; 3 May 1987.

Remarks: Additional type material: USNM 293726, holotype. – AMS I.19338-024, I.19483-074, I.19657-012; 9, 89 and 45 paratypes. – BPBM 32335, 1 paratype. – USNM 227824 to 227826, 227842, 273895, 273897, 273898, 273906, 273907, 273915, 293407, 293487, 293793, 293894, 293907, 297765, 297771, 297846, 317986, 344068, 344099; 101, 2, 9, 80, 1, 12, 11, 14, 1, 41, 5, 9, 3, 5, 2, 3, 1, 21, 2, 1 and 21 paratypes. – WAM P.30416-011, 1 paratype.

Enneapterygius trisignatus Fricke, 2001: FRICKE 2001: 6, fig. 1 ("New Caledonia, Grande Terre, Province Nord, Northern end of island, 1 km east of Pointe Naharian, 20 km north of Poum, 20°04′18″S, 164°00′15″E, 1–3 m").

Valid (according to FRICKE 2002b: 191–192).

Holotype: **SMNS 22074**; New Caledonia, Grande Terre, N tip, Province Nord, 1 km E Pointe Naharian, 20 km N Poum, 20°04′18″S 164°00′15″E, coral reef, channels with sand bottom, 1–3 m depth at low tide; FRICKE, R., St. RF 00 NC 05; 11 May 2000, 08:00–08:45 h.

Paratype: **SMNS 22085**, 1 specimen; New Caledonia, Grande Terre, N coast, Province Nord, 8 km ESE Tiari, 12 km NNW Ouégoa, 20°15′20″S 164°24′10″E, coral reef, channel with sand bottom, 0.5–3.5 m depth at low tide; FRICKE, R., St. RF 00 NC 07; 12 May 2000, 08:00–09:45 h.

Remarks: Additional type material: MNHN 2000-1447, 1 paratype.

Enneapterygius williamsi Fricke, 1997: Fricke 1997: 361–364, fig. 73, tabs. 129–132 ("New Caledonia, Loyalty Islands, Ouvéa Atoll, Île Haute, deep surge channel on ocean side of reef at W end of island, 20°29′12″S 166°19′18″E, 3–10 m depth"; also Vanuatu; Tonga).
Valid (according to Fricke 2002b: 192).
Paratypes: **SMNS 18700**, 2 specimens, 24.8–25.1 mm SL; Loyalty Islands, Ouvéa Atoll, Île Haute, deep surge channel on ocean side of reef at W end of island, 20°29′12″S 166°19′18″E, 3–10 m depth; Williams, J. T., Menou, J.-L. & Tirard, P.; 19 Jan. 1991.
Remarks: Additional type material: USNM 323821, holotype. – USNM 319881, 323786, 343948 to 343952, 344098; 2, 2, 27, 5, 21, 1, 21 and 10 paratypes.

Enneapterygius ziegleri Fricke, 1994: Fricke 1994a: 8, figs. 5–10 ("Sanur Beach Reef, Bali, Indonesia, 8°40′S 115°15′E").
Valid (according to Fricke 1997: 366, 572).
Paratype: **SMNS 15354**, 1 specimen; Indonesia, Sanur Beach Reef, Bali Island, 08°40′S 115°15′E; Larson, H. K., Larson, J. & Gloerfelt-Tarp, T.; 9 June 1982.
Remarks: Additional type material: NTM S.10689-026, holotype. – NTM S.10689-041, S.10689-042, S.10689-043, S.10695-004, S.11081-032, S.11127-007; 1, 18, 12, 14, 85 and 1 paratypes.

Forsterygion flavonigrum Fricke & Roberts in Fricke, 1994: Fricke & Roberts in Fricke 1994b: 314–319, fig. 63 ("New Zealand including Chatham Rise to Chatham Island, Snares Islands, and Auckland Islands; at depths of 7–110 m").
Valid (according to Fricke 1997: 573).
Paratypes: **SMNS 24582**, 10 specimens; New Zealand, Fiordland, off Seymour Island, Doubtful Sound, 45°18′S 167°00′E, 12 m depth; Hardy, G. S.; 28 Feb. 1985.
Remarks: Additional type material: NMNZ P.16927, holotype. – AMS uncat., 10 paratypes. – BMNH uncat., 10 paratypes. – NMNZ P.15346, P.15410, P.15906, P.15908, P.16380, P.17008, P.17042, P.18255, P.18285, P.18442, P.20108, P.21194, P.21653, P.21808, P.21815, P.24649, P.25095, P.25694, P.26653, P.26662, P.27800, P.28284, P.30198; 20, 43, 1, 1, 1, 3, 7, 1, 2, 4, 3, 7, 1, 1, 8, 4, 3, 2, 20, 5, 18, 8 and 31 paratypes. – USNM uncat., 10 paratypes.

Grahamina signata Fricke & Roberts, 1993: Fricke & Roberts 1993: 16–19, fig. 9 ("New Zealand, South Island: South-Westland, Otago; North Island: NE Northland, W Northland, west coast, Hawke Bay, Wellington area; Auckland Islands; extremely exposed rocky shores, 0.3–3 m depth").
= *Grahamina gymnota* (Scott, 1977) (according to Clements et al. 2000: 379).
Paratypes: **SMNS 13916**, 66 specimens, 21.3–73.0 mm SL; New Zealand, South Island, Tauranga Bay, 3 km SSW Cape Foulwind, 15 km WSW Westport, 41°47′S 171°27′E, 0–1.5 m depth; Fricke, R.; 21 Nov. 1992. – **SMNS 13933**, 21 specimens, 25.8–69.1 mm SL; New Zealand, South Island, 3 km SW Barrytown, 20 km NNE Greymouth, 42°15′S 171°16′E, 0–3.5 m depth; Fricke, R.; 22 Nov. 1992. – **SMNS 14047**, 1 specimen, 43.8 mm SL; New Zealand, South Island, Allan Beach, Otago Peninsula, 14 km E Dunedin, 45°54′S 170°42′E, rock pools; Fricke, R.; 4 Dec. 1992.
Remarks: Additional type material: NMNZ P.30571, holotype. – AMS I.34234-001, 5 paratypes. – BMNH 1993.9.24.1–5, 5 paratypes. – NMNZ P.14109, P.17083, P.30570; 2, 17 and 5 paratypes. – USNM 326614, 5 paratypes.
Clements et al. (2000: 381) concluded that *G. signata* (= *G. gymnota*) was introduced into Tasmania by human activity.

Helcogramma kranos Fricke, 1997: Fricke 1997: 452–455, fig. 92 ("Indonesia, Nusa Tenggara Timur Province, N of Komodo Island, Tawata Island, NW side, 1–2 m depth").
Valid (according to Williams & Fricke 2001: 3534; Allen & Adrim 2003: 53).
Paratypes: **SMNS 18663**, 1 ♂, 21.9 mm SL; Indian Ocean, Indonesia, Prov. Nusa Tenggara Barat, Lombok Strait, Lombok Island, Senggigi, 15 km WNW Mataram, 8°30′00″S 116°02′34″E, coral reef, coralline rocks, 0–2.5 m depth at high tide, corals, rocks, sand; Fricke, R., St. RF 96 IN 03; 13 Dec. 1996, 16:20–18:35 h. – **SMNS 21882**, 1 specimen, 26.9 mm SL (ex BPBM uncat.); Indonesia, Nusa Tenggara Timur Province, N of Komo-

do Island, Tawata Island, NW side, 8°25′S 119°15′E, 1–2 m depth; RANDALL, J. E.; 28 Mar. 1995.
Remarks: Additional type material: BPBM 36503, holotype. – BPBM uncat., 1 paratype.

Helcogramma larvata Fricke & Randall, 1992: FRICKE & RANDALL 1992: 6–9, figs. 5–6 ("North Male Atoll, Maldives").
Valid (according to FRICKE 1997: 579).
Paratype: **SMNS 11577**, 1 ♂, 19.2 mm SL; Maldives Islands, North Male Atoll, Male Island, 4°11′N 74°30′10″E, ocean side, off sea wall, surge channel with boulders, 0–1.5 m depth; RANDALL, J. E., ANDERSON, R. C., ADAM, M. S. & MILTON, D. A.; 25 Mar. 1988.
Remarks: Additional type material: BPBM 34518, holotype. – BPBM 34519 and 34520, 2 paratypes.

Helcogramma maldivensis Fricke & Randall, 1992: FRICKE & RANDALL 1992: 9–11, figs. 7–8, pl. 1 ("North and South Male Atolls, Maldives").
= *Helcogramma maldivense* Fricke & Randall, 1997 (according to FRICKE 1997: 579, as *H. maldivensis*; ESCHMEYER in FROESE & PAULY 2004).
Holotype: **SMNS 11468**, ♂, 25.4 mm SL; Maldives Islands, South Male Atoll, Kandooma Island, 3°55′38″N 74°29′33″E, SW outer reef, isolated coral heads, underneath overhanging coral, 0.5–1.5 m depth; FRICKE, R.; 12 Nov. 1988.
Paratypes: **SMNS 11469**, 2 ♂♂ and 2 ♀♀, 17.5–22.3 mm SL; same data as holotype. – **SMNS 11470**, 2 ♂♂, 17.6–21.6 mm SL and 1 ♀, 18.9 mm SL; same locality as holotype; FRICKE, R.; 13 Nov. 1988. – **SMNS 11471**, 1 ♂, 17.8 mm SL; same locality as holotype; FRICKE, R.; 14 Nov. 1988. – **SMNS 11472**, 1 ♂, 22.2 mm SL; same locality as holotype; FRICKE, R.; 17 Nov. 1988. – **SMNS 11473**, 1 ♂, 23.3 mm SL; same locality as holotype; FRICKE, R.; 18 Nov. 1988.
Remarks: Additional type material: BMNH 1991.4.15.1, 1 paratype. – BPBM 18889, 32904, 32976, 34521; 2, 3, 1 and 1 paratypes. – CAS 75979, 1 paratype. – MNHN 1991-0700, 1 paratype. – NSMT-P 34632, 1 paratype. – SAIAB 36705, 1 paratype. – USNM 316488, 1 paratype. – ZMB 32033, 1 paratype.

Helcogramma novaecaledoniae Fricke, 1994: FRICKE 1994b: 429–430, fig. 93 ("New Caledonia; depths of 3–38 m").
Valid (according to FRICKE 2002b: 193).
Paratypes: **SMNS 13912**, 2 ♂♂, 30.7–32.1 mm SL and 1 ♀, 31.0 mm SL; New Caledonia, Grande Terre, Passe de Saint-Vincent, 22°02′06″S 165°58′24″E, 3 m depth; KULBICKI, M. & R/V 'Alis'; 20 Mar. 1990. – **SMNS 13913**, 1 ♂, 36.0 mm SL; same data as SMNS 13912.
Remarks: Additional type material: MNHN 1997-0434, holotype. – MNHN uncat., 3 paratypes.

Helcogramma solorensis Fricke, 1997: FRICKE 1997: 472–474, fig. 96 ("Indonesia, Nusa Tenggara Timur Province, Savu Sea, Solor Island, E side, off Motton Point, 3 m depth").
Valid (according to WILLIAMS & FRICKE 2001: 3534; ALLEN & ADRIM 2003: 53).
Paratype: **SMNS 21880**, 1 specimen, 38.8 mm SL (ex BPBM uncat.); Indonesia, Nusa Tenggara Timur Province, Savu Sea, Solor Island, E side, off Motton Point, 8°32′S 122°50′E, 3 m depth; EARLE, J. L.; 4 Nov. 1990.
Remarks: Additional type material: BPBM 36660, holotype. – BPBM uncat., 1 paratype.

Zenionidae

Antigonia mülleri Klunzinger, 1880: KLUNZINGER 1880: 380 ("Neuseeland; 2 specimens; 2,5 cm").
= *Capromimus abbreviatus* (Hector, 1875) (according to WHITLEY 1968: 44).
Syntypes: **SMNS 2591**, 2 specimens, 24.4 mm and 27.5 mm SL, 28.9 mm and 33.2 mm TL; NW coast of New Zealand; MÜLLER, F. VON; cat. entry date: Nov. 1878.

Zoarcidae

Lycodes brachycephalus Pappenheim, 1913: PAPPENHEIM 1913: 179–180, pl. 10, fig. 3 ["Es liegen von dieser Art 58 vollständige Exemplare vor (neben zahlreichen Köpfen) …"].

= *Pachycara brachycephalum* (Pappenheim, 1913) (according to ANDERSON in GON & HEEMSTRA 1990: 274).

Syntypes: **SMNS 4605**, 2 specimens, 103.1 mm and 158.4 mm SL, 105.7 mm and 161.5 mm TL; Gauss-Station, Antarctica, 66°15′S 88°55′E, 385 m depth; DRYGALSKI, E. VON, Deutsche Südpolar-Expedition 1901–1903; inv. date: 1912.

Remarks: Additional type material: BMNH 1913.4.15[or 23].58–59, 2 syntypes. – ZMB 18927 to 18929, 18931, 18933 to 18940, 21356, 24093; 1, 5, 1, 5, 1, 2, 6, 2, 3, 1, 1, 2, 1 and 4 syntypes. – ZMH 8156, 2 syntypes.

Lycodichthys antarcticus Pappenheim, 1911: PAPPENHEIM 1911: 383 ("zahlreiche Exemplare, die größten von etwa 20 cm Länge").

Valid (according to ANDERSON in GON & HEEMSTRA 1990: 267).

Syntype: **SMNS 4607**, 1 specimen, 169.5 mm SL, 175.4 mm TL; Gauss-Station, Antarctica, 66°15′S 88°55′E, 385 m depth; DRYGALSKI, E. VON, Deutsche Südpolar-Expedition 1901–1903; cat. entry date: 1912.

Remarks: Additional type material: BMNH 1913.4.15.60–61, 2 syntypes. – ZMB 18941 to 18946; 6, 2, 3, 2, 1 and 1 syntypes. – ZMH 8157, 1 syntype.

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